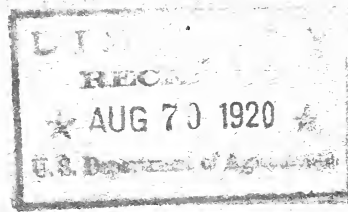


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(The) Dixie Planter

Season of 1917-18

HOWARD
STOVALL, N. C.

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Howard Nursery Company

Stovall, Granville Co., N. C.

The first thirty-two pages of this publication were printed under the direction of a committee composed of southern nurserymen from three states, members of the Southern Nurserymen's Association. Only members of that organization in good standing are allowed to use same.

The last thirty-six pages are our own, comprising our regular catalog and price list. Only things known to be suited to our territory are included. You may place orders for same with assurance that you will get satisfactory results.

REFERENCE: Bank of Stovall, Stovall, N. C.
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The Purpose of this Booklet



Portion of our wonderful country offers greater natural advantages for beautiful home grounds and profitable orchards than does the South. Here the climate is agreeable to plant life, the soil is adapted to growing a large variety of trees and shrubs, and the moisture supply is sufficient.

Even with all these things in our favor, and with a great number of trees and shrubs that will grow almost anywhere, we really do not have the attractive home grounds that might be ours, nor do we, as a people, seem to know the value of such plantings. Too many of our people are content to live in a house set in the midst of sandy barrens, with never a tree to cast its welcome shade or a shrub to give fragrant flowers or a vine to screen the porch. Just a small sum would provide these simple comforts. On every home grounds deciduous trees should be planted for the shade they afford, shrubs for their graceful appearance and bloom, roses for their beauty and delightful fragrance, evergreens for windbreaks, and hedges and vines for screening unsightly objects.

To make the Southern home more beautiful and cheerful, the Southern orchard more profitable, and to assist the home-lover and orchardist to obtain better results from his plantings, is the aim of the Southern Nurserymen's Association. To help our friends and neighbors to have better home surroundings and more profitable fruit trees is the sole purpose of this booklet. It is not a catalogue, but a guide for Southern planters, prepared under the direction of men who have spent many years in growing the very things mentioned herein, and the information given is the result of their labor and experience.

The booklet has been written with the needs of the orchardist and home-lover of the South especially in mind. There is nothing technical about the contents. It is written in every-day language, and if its simple directions are followed, you should experience no trouble in securing satisfactory results from your plantings.

The Southern Nurserymen's Association, under whose direction this booklet was prepared, is composed of the leading nurserymen of the South. The nurseryman who presents this booklet to you is a member of this Association. He stands ready at any time to help you in every way possible with suggestions and advice as to the proper planting of fruit trees and ornamentals. If you have some planting problem which you do not fully understand, do not hesitate to communicate with him. He is a practical grower himself, and his many years' experience will help you to make your planting more pleasing and profitable.

We are indebted to Mr. W. N. Hutt, State Horticulturist of North Carolina, for many helpful suggestions in preparing this booklet.



The lawn should be smooth and level, so no water can gather and stand

The Lawn

THE scarcity of handsome lawns throughout the South is due more to improper preparation of the soil than to the long, warm summers. True, the selection of the correct grasses has much to do with the success or failure of a lawn, but most failures are directly traceable to poor preparation of the soil—the foundation of every lawn.

The first thing we must have is drainage, for no suitable lawn grass likes wet feet. In ordinary soils sufficient drainage is obtained by securing the proper grade so that there are no hollows to allow the retention of water during "thaws." In unusually heavy or clayey soils, it may be necessary to lay underground tiles in lines about 15 feet apart. The idea is not to strive for dry ground but rather to carry off all surplus moisture. By drainage we do not mean that the ground is to be kept dry, for grass cannot thrive without sufficient moisture. We simply mean that surplus moisture must be carried off, and not allowed to stand on the grass or about its roots.

The ground should be fairly rich. Eight inches of good soil (preferably loam) should be harrowed or spaded in and well mixed with a liberal quantity of dry, rotted manure; about 8 cords to the acre, or 2 or 3 inches deep, is the proper amount. All manure contains weed seeds to some extent, but it is necessary on some lands for the condition of the soil. In the proper amounts, it will make a sandy soil less porous and a clay soil more pliable and less liable to crack and bake during the dry spells. In spading or harrowing the ground, you should pick off and burn all the weed roots you can find, for smut grass or broom sedge will soon deface a lawn if it gets a start. Wild onions and rib grass, or narrow-leaf plantain, are other obnoxious pests.

The next problem is the selection of seed. Care must be taken in this, for the grass is the visible evidence of your labor and the thing that beautifies the ground. No one variety possesses all the fine points you must have, but there are several mixtures of the best sorts that are giving good results. Among these

perhaps the best is a combination known as evergreen lawn mixture. In this compound some of the varieties are at their best in early spring, others in the summer, and more late in the year. Thus you always have a nice green carpet of grass, whereas, if you sow but one variety, you get only one period of green grass each year.

To sow the seed, select a day when there is little or no wind, in order that the seed may not blow away. Scatter the seed carefully, so it will be distributed evenly. The proper time to sow is from September to November 15, or in early spring. After sowing, the lawn should be gone over thoroughly with a fine-toothed rake to cover and set the seed. Then it should be rolled, to firm the soil and make the surface level, for smoothness in a lawn is always desirable. After the grass is up a few inches, run the mower over it, leaving the cut grass to act as a mulch, and then roll the lawn. Rolling is as essential to good appearance as mowing, and should be done just as often, if best results are to be expected.

The best method for eradicating the weeds that appear is to uproot them with an old knife. By encouraging the growth of grass with good care, we discourage the weeds, for they thrive most where the grass is thin and the soil poor. Old lawns should have a dressing of sheep manure in the early spring. In the fall a light top dressing of wood ashes will be of lasting benefit.

A few pointers: Be sure of drainage; select a good seed mixture; do not be afraid to fertilize; mow and roll often; and, above all, if weeds get started, do not let them go to seed. Then you will have a good lawn.

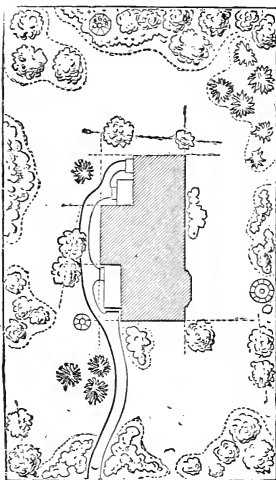


Fig. A

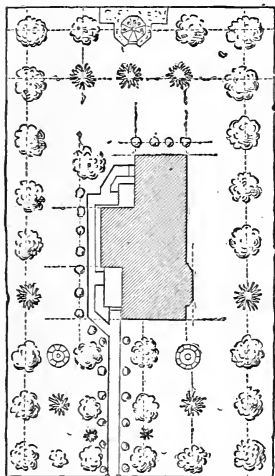


Fig. B

Laying Out the Grounds

After having laid our lawn, the next step is to supply various units, such as drives, walks, gardens, and, maybe, a laundry yard, in such a way as to have them serviceable and still produce a harmonious whole. Bear in mind, throughout, that the chief service of the lawn and attendant trees and shrubs is to supply a setting for the more individual features of the grounds.

Either straight or curved drives and walks are proper on some places, but two general rules that it is safe to follow are: (1) Make them as serviceable and inconspicuous as possible, and (2) follow the contour of the ground. A noted horticulturist says: "Nature has but little use for the shortest distance between two

SOUTHERN HOME GROUNDS

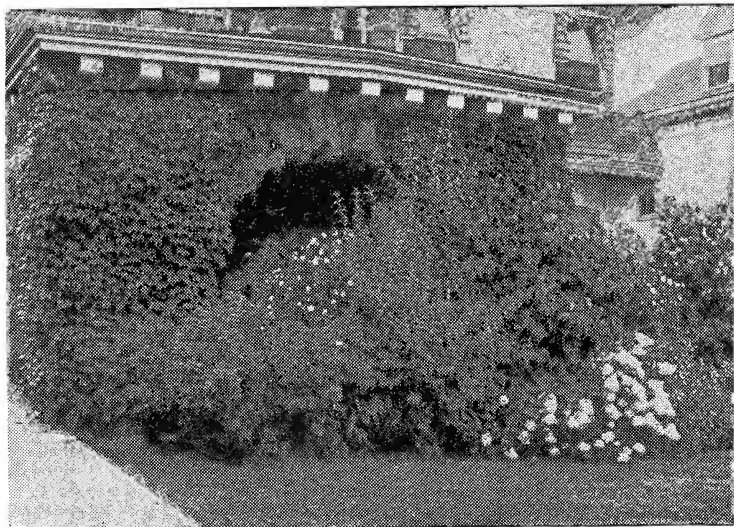
points; a walk that curves without visible reason is a mere wiggle and worse than straight lines." That is, should we desire a curved walk, it is best to supply some reason for the walk to curve, such as planting groups of shrubbery in the bends. A long, curved walk with appropriate plantings gives us a continual change of view and holds our interest.

Let us consider the two drawings of the same home grounds which are shown on page 3. Figure A shows a curved walk with a reason, well set out by shrubbery and evergreens. The straight walk in B is perfectly proper but very stiff and formal, and lacks the naturalistic effect seen in A. The trees and shrubs in the former are laid off in straight rows, covering the entire lot, leaving no open breathing places. The grounds, although as large as in A, appear much smaller and crowded.

In A the rule of mass planting and leaving the center open has been followed, allowing ample room for a fine greensward and views to all portions of the grounds. The mass or naturalistic planting is that of placing together several varieties that mass well. Individual specimens are used here and there to give variety by bright foliage or some other well-defined quality.

Prof. L. H. Bailey in his "Standard Cyclopedia of Horticulture" says: "Keep the lawn centers open. Plant in masses. Avoid straight lines." This is very good advice for any planter, and, if these rules are followed, a more handsome appearance on the home grounds will be the result.

Do not set out a tree or plant just because your neighbor did. What may look well on his place might not blend with your grounds at all. Make everything have a purpose, and, above all, do not crowd. A congested planting is merely a jumble instead of a picture. Evergreens, deciduous trees, shrubs, roses, etc., all have their proper place on the grounds, and the following pages will tell you about them.



Ornamental plantings are much desired at the house foundation. At a trifling cost, the owner of this house increased its beauty a hundredfold

Ornamental Plantings

The charm of ornamental plantings is one of the things that is not properly appreciated, but, for adding value to the home grounds and joy to life, they have a very high worth. Suppose you were about to buy a home. Would you buy a house surrounded by a few weeds or a rank growth of grass? Or, would you prefer a place that had a few trees, shrubs, or plants set out here and there? There is every chance that you would take the latter.

Now, in planting your grounds, first consider the foundation. Without plants the house stands out above the lawn, seeming to have no relation to it. There is nothing to soften the appearance and make the two blend. Before going any further let us examine the picture at the bottom of page 4. There are vines running up the wall and hiding its bareness. In the foreground there are a few shrubs neatly arranged which cover the bare foundation and give the house a really home-like appearance. The planting cost perhaps ten dollars or less, but does it not add considerably more than this to the value of the property? It is permanent, not requiring an annual planting and being in full foliage and flower before a planting of annuals would make any display.

Elaborate plantings should not be undertaken without the aid of a landscape architect. By this we mean plantings that are to cost considerable and are to be quite extensive in size. For the ordinary home a few dollars, invested in flowering shrubs, roses, and vines planted by your own hands, will give you greater joy than you can imagine. You will find it fun to plan your grounds, and then you will have them the way you prefer.

There are two very effective ways to set out the plants. One is to bunch them in clumps. This method is called "mass planting." The other way is to plant each separately. This is known as "specimen planting." Both methods are all right in their place, but ordinarily it is best to use the mass method for low-growing plants, and to plant the taller growing trees and use evergreens as specimens.

Your planting may be harmonious or contrasting. For harmony you can use plants whose leaves are the same shade of green or those whose flowers are nearly the same color. If the opposite is wanted, you will need some plants with dull green, some with bright green, and a few with variegated foliage. Variation in outline always adds interest. This is obtained by massing plants which grow to different heights. If due care is exercised in the selection of shrubs for these groups, a planting can be secured that will have some plant or group of plants at its best during the entire spring, summer, and fall. Broad-leaved evergreens may be worked into the plantings to give a pleasing winter effect.

In all ornamental plantings, avoid straight lines; plant low trees and shrubs in masses, and taller ones as specimens; do not crowd or obscure attractive views; shut out undesirable objects by screens.

Mass Plantings

As shown on the preceding page, one good place for mass plantings is at the house foundations. There are many other places where they may be effectively used. On the boundary line of the grounds, on corners of the lawn, and at the bends of walks are good spots to put mass plantings. Figure A on page 3 shows a clump of evergreens massed at the curve in the walk. The planting should always be on the inside of the curve if it is on a small scale.

Shrubs (especially the low-growing kinds) should be planted in masses, and every home grounds should have a few clumps of them. The illustration on page 6 shows a neat planting beside a walk through the grounds. You may not care to spend the money for such an extensive planting as this, and it is not necessary, although this planting did not cost so much as you would think.

If you live in a city or village, a fence may now be separating your front



Along paths, walks or driveways mass plantings are far better than specimens

lawn from your neighbors. Where a row of homes are set nearly equi-distant from the street and each lawn is well kept up, fences and hedges are out of place. It is more charming to let lawns run into each other, forming one solid green carpet, with occasional specimens and masses about the homes. But, should some barrier be wanted, a neatly trimmed hedge of privet or a shrubbery border answers much better than a fence.

Talk it over with your neighbors. Tear down that fence and plant a shrub border or hedge. Doing this will make both homes more valuable and better places to live in.

Another good way to make a mass planting is to use perennials. They have a high decorative value and may be used in combination with shrubs, or alone as a foundation planting. Right up close to the house, plant the taller growing varieties, and in front plant the lower kinds. In this way your planting will "step down," as it were, toward the front, where, without any perceptible break, it will blend with the greenery of the lawn.

If you use perennials, be sure to plant those that will give variety, both in color of flower and period of bloom. Do not plant those of the same flowering period together, but place other plants between them. This will bring you extra joy, for it affords several months when some parts of your perennial border will be in bloom.

Specimen Plantings

By specimen plantings is meant the planting of single trees on the lawn, or, in fact, anywhere on the home grounds. Specimen plantings are also desirable in parks and cemeteries, but it is on the home grounds that their great worth should be more fully appreciated. Wherever shade is wanted, plant

specimen trees. They keep off the hot rays of the sun and afford an excellent place for the children to play beneath their spreading branches.

The illustration on this page shows a Crape Myrtle in a specimen planting. This gives an idea of how this beautiful flowering tree will appear on the grounds. It grows to about 15 feet in height, and during almost the entire summer it is covered with charming pink flowers. Crape Myrtle is a typical Southern tree and for that reason it should be on every home grounds. It is not recommended so much for shade as for its value in ornamentation.

What trees to use depends largely on the individual taste and in what part of the South you live. The best way to find out just what you should plant is to ask the nurseryman who presented you with this booklet. Magnolias, Pecans, and Mimosa are useful. These are all good shade trees and are well adapted to our Southern soil and climate. The Pecan is extra valuable on account of its big crop of delicious nuts. The Oaks are good for shade trees and stand our Southern conditions well. The Planes, Dogwoods, Tulip Tree, Poplars, and the Ginkgo thrive in the South and should be widely used in specimen plantings.



For specimen planting the Crape Myrtle is a most desirable tree for the South

Deciduous Trees

These trees get their name from the fact that they drop their foliage each fall and are dormant through winter. They are widely planted all over the world because of their beauty during the hot summer months. Most deciduous trees furnish shade and are therefore almost indispensable for home planting.

To obtain the best results with plantings of deciduous trees but little work is necessary. They like a mellow loamy soil, with sufficient moisture and good drainage, but they do not like to have water standing about their roots.

In selecting the varieties of trees, the location must be considered, for the kinds that thrive in one locality may not be satisfactory in another. The nurseryman who gave you this booklet can tell you what to plant for your particular locality. If you want your trees for shade and beauty, you can use the stately American Elm. This tree grows rapidly, and is one of the finest shade and ornamental trees you can have. Pecans grow well in the coastal South, but the Norway Maple is the best shade tree.



Deciduous trees are the most useful and appropriate for parks and playgrounds, and for shading the home

Another handsome small tree is the Crape Myrtle, a tree that every Southern homeowner should plant because it is typical of the South. The Mimosa is desirable on account of its delightfully fragrant foliage. The quick-growing Lindens, with their abundant shade, make excellent lawn specimens. The Maples are always good on the lawn; the rapid-growing varieties are Manitoba, Silverleaf, and Wier's Cutleaf. Sugar, Norway, Sycamore, and

Schwedler's Purple-leaf Maple are of slower growth. The Plane (Sycamore) trees are quick growers and in time reach immense size. The Oaks are slow to grow; but who can name a more majestic tree than a full-grown specimen? The Texas Umbrella is highly ornamental and at the same time possesses great value as a shade tree. The Judas Tree, Varnish tree, and Liriodendron, or Tulip Poplar, are also valuable lawn trees.

There is another class of trees that is not getting the attention it should have, and they are the weeping trees. Are you not always impressed by the beauty of the Weeping Willow? It grows quickly and gives universal satisfaction. Thurlow's Willow is similar and is truly a remarkable tree. Perhaps the most pronounced "weeper" of all is Teas' Mulberry. The branches of this tree are slender, pendulous, and droop to the ground in such a way as to give the tree a fountain-like aspect. All of these weeping trees do well in the South and are extremely valuable for decoration. The Weeping Willows are also excellent shade trees. Weeping trees, and those with odd-shaped and variegated leaves should be an exception rather than a rule on all home grounds.

Coniferous Evergreens

For some reason or other we people of the South do not plant evergreens so widely as we should. Perhaps it is because we look on them as strictly northern trees and not adapted to the South. This is true of but very few evergreens, for nearly every variety that will thrive in the North will also do well in the South. And, besides that, we have some native sorts that do far better here than in the North. The Australian Pine, while valuable for southern Florida, will not thrive outside of that state. The Deodar, or Indian Cedar, is another handsome tree that is satisfactory here, but not in the North.

For planting on the home grounds, evergreens have a great advantage over deciduous trees in that they are beautiful both summer and winter, while the deciduous trees are attractive in the summer only. Evergreens are hardy and will successfully withstand extremes of heat and cold. They do not require any care after planting, but like a fairly rich soil. Given this, there is every chance that they will live and thrive for many years if you will keep dogs away from them while the trees are small.



Coniferous Evergreens are much desired, for they are beautiful the year round

There are two good ways to plant evergreens, namely, in masses and as specimens. The plan you adopt should depend largely on the ultimate size the tree will attain. If it will reach any considerable size, specimen planting will prove more effective, while the low growers will look best in mass plantings. Then again, the color should be considered. The golden-foliaged trees make excellent specimens, regardless of size, and the same is true of all other trees with variegated leaves.

Let us consider the merits of some of the many evergreen trees that are adapted to the South. First of all is the handsome Indian or Deodar Cedar. This tree possesses a symmetrical, cone-like form and beautiful silvery foliage. It grows to great size, and is rightly considered one of the best trees for specimen planting. Of the other Cedars, the Mt. Atlas variety is perhaps the leader for specimen planting. It is a pyramidal, loosely formed tree, reaching a height of over 100 feet. The Virginian and Blue Virginian Cedars are handsome trees. The Japanese Cedar is a stately tree, reaching 40 feet or more in height. The foliage is bluish green and the tree itself is a rapid grower.

Arborvitæ possess great value for either mass, specimen, or hedge planting. The American Arborvitæ grows tall, but a little trimming will train it to any desired size or shape. Its natural form is rather pyramidal, a characteristic which makes it useful in specimen planting, and, as it is easy to train, it is also an excellent hedge plant.

The Dwarf Golden Arborvitæ is a low variety, valuable for its wonderful golden foliage. It is a remarkable plant for specimen plantings, window boxes, or for lawn decorations. The American Fern-like Arborvitæ grows to about 20 feet, and has a spreading pyramidal shape. The foliage is bright green, deeply toothed, and held on the tree in such a way that the whole resembles a fern.

The Junipers do well, and they are useful both in specimen and mass planting. The Irish Juniper is perhaps the best for planting where an out-of-the-ordinary effect is wanted. Its green foliage is dense, and the branches grow

erect and close to the trunk, giving the tree the appearance of a pillar. It is an excellent variety for planting in cemeteries. Any of the Junipers do well in the South and you need not hesitate to plant them.

Space will not permit us to point out the advantages of all the desirable evergreens for Southern planting; but you can set out any of the Arborvitæ, Firs, Junipers, Hemlocks, Cedars, Spruces, Pines, Retinosporas; and your selection should thrive. There are many different varieties of these and each sort has distinct advantages of its own. Ask us about suitable varieties for your locality. Some of the lower-growing evergreens make effective hedges, while the taller growers should be planted singly, in screens, or in clumps.

Broad-Leaved Evergreens

In considering evergreens for home-grounds planting, we must not overlook the broad-leaved types, for there are many of them suitable for either mass or specimen plantings. Among these is the beautiful *Abelia grandiflora*, a shrub of great value. The dark, glossy green leaves remain all winter, and the dainty, pinkish white flowers are borne in abundance from July until frost. For mass plantings on the lawn or at the house foundations, *A. grandiflora* is in a class by itself. Other desirable plants are the Camellia, Cape Jasmine, English or Cherry Laurel, the Japanese Privet, Holly-leaved Tea Olive, and the evergreen Mahonias. The Wild Orange, or Carolina Cherry, is also highly prized for general planting.

All broad-leaved evergreens are worthy of extensive planting, for they have many good qualities, and thrive under adverse conditions better than the cone-bearing kinds.



Abelia grandiflora used in foundation planting where it is most effective. Those dwarf evergreens look good too



For flowering beauty we can hardly overlook the shrubs. A foundation planting of them has a distinct charm, for they improve the looks of the home

Shrubs for Flowers and Foliage

Without the strong colors and rich foliage of shrubs, many of the artistic and beautiful effects now obtainable in landscape planting would be lost. Few other plants seem to fit quite readily into every landscape plan. They are valuable for foundation planting, where they cover up bare walls and bring the lawn right up to the house without a visible break. In mass plantings they are very good and a clump of shrubs is an attractive sight when in flower.

Shrubs massed along walls and fences take away the ugly or bare appearance and make the grounds far more attractive. Some of the shrubs are ideal specimen plants and give excellent results when used this way. The Lilacs and Japanese Maples are appropriate for specimen planting and any of the taller kinds will appear well when planted singly.

In the corners of the home grounds are other good places for mass plantings of shrubs. A shrub border is far better than a fence between your grounds and those of your neighbor; it makes both grounds more attractive and more valuable. Some of the shrubs are useful in building hedges. The low-growing varieties can be used for this.

Among the deciduous shrubs that have proven themselves well adapted to our conditions are Althea, Barberry, Buddleia, Deutzia, Forsythia, Elæagnus, St. John's-Wort, and Tamarisk. The Calycanthus, or Sweet Shrub, Pearl Bush, Red-flowering Dogwood, Naked-flowered Jasmine, Cytisus laburnum, White Kerria, Coral Berry, Chaste Tree, and the Hydrangeas, Bush Honeysuckles, Lilacs, Mock Oranges, Spireas, Snowballs, and Weigelas are others of value.

Both the deciduous and evergreen shrubs are widely used in all parts of the country, but nowhere are they more at home than in the South. However, it is well to know just what shrubs are best for your locality, and any Southern nurseryman will be able to tell you just what you should plant. Remember this, however, that the best way to arrange shrubs is in masses.

Roses · The Symbols of Sweetness

Roses—the very name thrills all who love the fragile beauty of the “Queen of Flowers.” And in the South this is especially true, for many of us have known the Rose since childhood. The Rose loves the sun, and in our long, warm summers it seems to thrive with utmost splendor. There is nothing gorgeous about this flower, but in a beautiful garden no other can take its place.

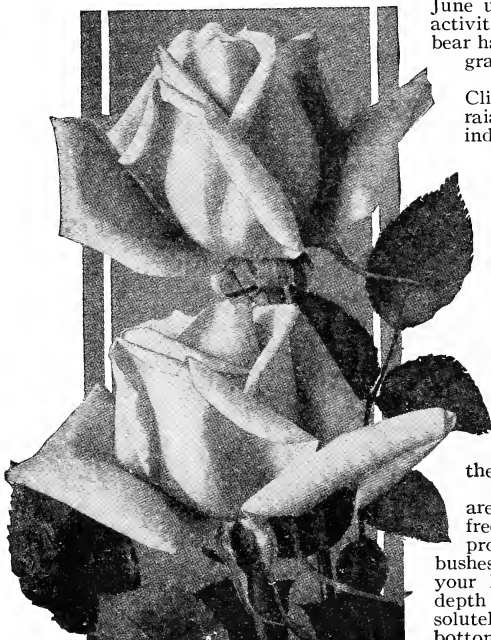
There are many varieties of Roses suited to our Southern soil and climate. Hybrid Tea, Hybrid Perpetual, Tea, and Climbers are the best known classes, although there are others of lesser note. Hybrid Perpetuals flower in great abundance during June, and perhaps bear a few blooms in August or September. They are delightfully fragrant. If the blooms, with stems of liberal length, are cut from the plant after the buds open, they will keep for several days if the stems are placed in water. This class of Roses is hardy and needs no winter protection.

The Tea varieties get their name from the marked tea-like fragrance prevalent in the blooms. They blossom from June until fall, and are quite valuable as cut-flowers. The Hybrid Teas are crosses of the hardy Hybrid Perpetuals and the free-flowering Teas, and possess the good qualities of both parents. From the former they get fragrance and hardiness, from the latter they get their long period of bloom. From early June until frost puts an end to their activities your Hybrid Tea bushes will bear handsome flowers of wonderful fragrance and almost fairy-like delicacy.

There are several families of Climbing Roses, Noisettes, Wichuraianas, and others. All have their individual advantages, and a planting of any of them will please the lover of Climbing Roses. This class is very useful in the South, or anywhere else for that matter, for they can be used around the porch, where they temper the sun's rays with their shade and make the veranda more pleasant with their delightful fragrance. The Ramblers are useful for hiding stones, stumps, or other unsightly objects, and for covering up banks and terraces.

The “Queen of Flowers” likes rich soil, plenty of moisture, and abundant sunlight. Roses should not be planted in ground where there are roots of living trees.

Roses should be planted when they are dormant. Just before the ground freezes or in early spring are the proper periods for setting out the bushes. After deciding on the size of your Rose-bed, take out the soil to a depth of about 2 feet. If you are not absolutely sure about drainage, fill in the bottom with about 8 inches of small stones or pieces of brick. Now fill up the trench with good fertile soil mixed with



There should not be a Southern home without its garden of fragrant Roses

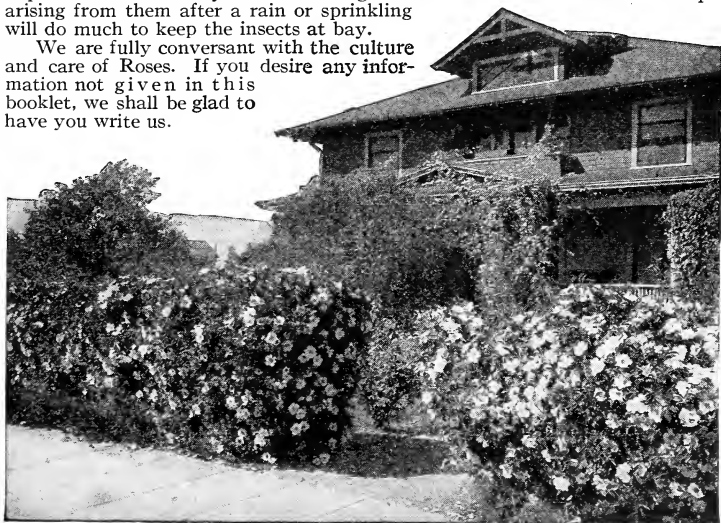
fertilizer. If cow-manure is available, you will find it the best, but it should be well rotted. Equal parts of cow-manure and soil is the correct proportion. If you use sheep manure or commercial fertilizer, use sparingly, for both are very strong, and an excess is liable to injure your plants.

You are now ready to plant your bushes. Set them with the splice (if they are budded varieties) about 2 inches below the surface. The hole that is to receive the plant should be large enough to allow the roots to be inserted without touching the sides. Now that you have set the plant, spread out the roots and do not allow them to lie across each other. With the hands gently firm the soil about the roots, for they can draw no substance from air spaces. Put in the top soil and pack it gently with the foot. If the ground is not quite moist when you plant, and it is not likely to be, pour a pail of water in this depression.

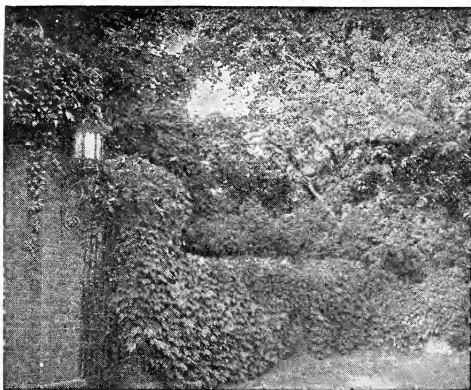
Your Roses are now set out and the next thing to do is to prune the bushes. If you plant in the fall, do not cut back very much of the live wood. Cut off any and all decayed wood and spindling branches, for these are weaklings and are only sapping away the life of the plant. If it is spring, cut back your plants severely. Select a good strong eye on the outside of the stem about a foot from the ground, and cut off the bush just above the eye.

It must be remembered that Roses have enemies, just as fruit trees have theirs. Directly after the leaves have opened, look at them and if any are stuck together or doubled up, that is the sign of Rose caterpillar. No remedy has been found to check this pest so well as pinching the glued leaves between the fingers. Do this every day until there are no further evidences of the caterpillar's activity. If the Rose bugs attack your plants, picking them off by hand will be most effective. Many of the leading Rose-growers plant a small, white-flowering shrub nearby, for Rose bugs are fond of white flowers and will go to the shrub. A good preventative of insect attacks is tobacco vapor. Place a few dry stems on the ground under the bushes and the vapor arising from them after a rain or sprinkling will do much to keep the insects at bay.

We are fully conversant with the culture and care of Roses. If you desire any information not given in this booklet, we shall be glad to have you write us.



Climbing Roses and vines have much the same uses. Train them over the porch or on a wall where they will add much to the appearance of the house and grounds



Just imagine the ugliness of this wall if that vine did not hide its bareness

Vines and Creepers

In ornamental plantings Vines have a multitude of uses. It seems that a planting of them always adds a mellowness to any scene. On new buildings they take away the glaring newness and make them blend with the landscape to a greater extent in a shorter time than any growing or blooming plant we can think of.

Let us consider how to use Vines. As porch draperies and screens they keep off the sun and make the porch more pleasant. For covering

the walls and corners of the house, Vines are the only things that can soften the sharpness of the outlines. Look at the illustration on this page and imagine how that stone wall would look without Vines. The English Ivy helps wonderfully here, but a Wistaria, Kudzu Vine, Boston Ivy, Dutchman's Pipe, Clematis, Jackson Vine, or Honeysuckle would be just as effective.

Vines grow rapidly, some of them sending out shoots 50 feet long in a year. The foliage of most varieties is quite dense, and nearly all of them produce an abundance of dainty flowers, some of which possess a pleasing fragrance. All vines belong to one of two classes, evergreen or deciduous. There is little to choose between the two, and a selection from either class will prove of great value. Both like rich soil, and, if given this, you need not worry much over the ultimate success of the planting.

However, we must bear in mind that the habits of the evergreen varieties differ from those of the deciduous kinds. The former seem to prefer a half-shady location for they do better where the sun's rays do not strike directly. The deciduous sorts, on the other hand, always revel in the open sunlight and are in their glory when they are not shaded at all during the day.

Now do not think that evergreen Vines must be kept in the shade and the deciduous varieties in full sunlight, for such is far from the case. Vines will grow anywhere and will do well if given only half a chance; but, like everything else, the better the opportunity they have, the better the results you may expect.

Plants that Live from Year to Year

All plants are divided into three general classes: Annuals, or those that start from seed, bloom, and die in one season, like Asters; Biennials, or those that require two seasons to complete their life, like Hollyhocks; Perennials, or those whose roots live in the ground year after year, although the tops die down to the ground in the fall.

Owing to their ability to thrive in almost any climate, perennials are extensively planted all over the country, but we people of the South should plant them more, and perhaps we would if we fully understood their remarkable advantages.

In the first place, they are the cheapest of all plants, for, unlike the annuals, they do not have to be replanted each year. A planting of perennials is like a planting of shrubs or trees, for it increases in value each succeeding year; but, unlike them, perennials do not require a couple of years' growth before they take their place in your garden plan.

There are many ways in which plantings of perennials may be used effectively. Beds, borders, and edgings are the principal ways to plant them, and any of these plans will give good results. Perennials should always be planted in masses, for a single plant does not show up the beauty of flower and foliage.

Perennials readily lend themselves to foundation planting. In such arrangements it is usual to plant the tall-growing varieties close to the house, the lower growers in front, and the dwarf varieties in the immediate foreground. This gives a planting that "steps down" and blends with the lawn. In planting a border the same scheme should be followed. Always select the sorts that will give variety in both color of flowers and period of bloom. Suppose you set out varieties that will flower in succession. Some will bloom in spring, others in early summer, more in late summer, and, when fall comes, others will be in blossom. This will give you a garden that will have flowers in it all through the warm weather.

A few of the best perennials, adapted to our conditions, are Columbines, Coreopsis, Hardy Larkspurs, Hardy Pinks, Sweet Williams, Foxgloves, Gaillardias, Iceland Poppies, Phloxes, and Chinese Bellflowers.

Peonies are valuable perennial plants. They are hardy, and the flowers are large and of the utmost beauty. September is the best time to set them out, for it gives them an opportunity to become established before winter. Peonies will thrive in any good ordinary soil and they require almost no care. Set the plants with the eyes 2 or 3 inches below the surface of the ground. A little cultivation and the liberal use of manure will produce a result of greater beauty in flower and greater freedom of bloom.



Among perennials there are no flowers that possess so many distinct characteristics as Peonies. Their flowers are larger than those of the Rose, and nearly as beautiful

Pecans

A Texas paper praises the Pecan in these glowing words: "In this country the clean and strong form of the Pecan proclaims it the aristocrat among trees. Its symmetrical form, its graceful branches, its straight trunk, and its foliage make it a thing of beauty. As a shade or ornamental tree it has no superiors, and its long life teaches us the important lesson of preparing pleasures for coming generations.

"Its shade is not so dense as to wither out the grass underneath but is dense enough to keep off the sun's rays when the mercury is around a hundred in the shade. Nut trees about the home, in addition to their beauty, are very dear to the hearts of our youngsters, and are one of the links that bind them to their home. A few Pecan trees around the home will furnish you with shade, make the grounds more beautiful, and put money in your pocket."

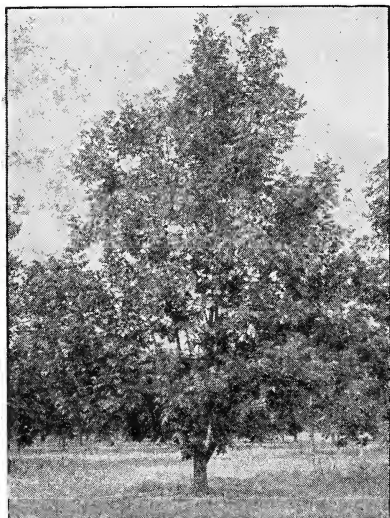
The trait that most recommends the Pecan tree is its worth as a profit-producer. Plant a young tree now; in a few years it will bring in big money, and it will steadily increase in worth. After the tree starts bearing nuts, its yield will increase annually until forty years after planting, and then it will continue its maximum crops indefinitely. In fact, there are trees bearing now that are known to be over one hundred years old.

Some people are troubled with the bugaboo of "over-production," and are not planting Pecans for that reason. Nothing could be further from the truth, for the demand is increasing yearly and the field is continually becoming more extensive. One of the South's noted horticultural authorities says: "The most promising item in the nut field at the present time is the fact that nuts are being consumed in larger quantities than ever before. The demand for fancy

dessert nuts is steadily increasing. Growers are not better able to supply the demand now than formerly, even though their output has increased. Prices have at the same time steadily advanced. An oil far superior to olive oil is now made from the Pecan."

Another advantage which the Pecan possesses is its marketing period. The nuts can be marketed any time during the twelve months after ripening, for they are not perishable and will stand any amount of shipping.

In regard to the profits made from Pecans, we can tell the story best by reproducing a few letters from enthusiastic growers. Mr. West, of Monticello, Fla., says: "I got 900 pounds of nuts from one tree, which I consider worth \$500. My 12-year-old tree earned \$54 last year." Dr. Morris, of New York, writing in "Medical Council," says: "More than \$200 has been paid for the crop of a single Pecan tree in a single year. Anyone can have an income of a few thousand dollars per year if he really cares to bring his initiative



Pecan trees are useful both for their shade and profitable nuts

to bear on the subject." These statements are based on facts and made by men who know. They should command the attention of every enterprising farmer and planter in the South. The President of the Nut Growers' Association said: "I saw a Pecan tree in Mexico, 5 feet in diameter, that is said to bear, every year, over a ton of nuts."

Now, let us consider the value of the different varieties of Pecans. Curtis is a medium-sized nut, and is considered one of the best for home planting. The shell is thin and the kernel has an excellent flavor. The tree is healthy and a good bearer. Delmas is slightly larger than Curtis, a good commercial variety, and the shell is a little thicker. The kernel is larger and of excellent quality. Schley is considered by many to be the leading commercial variety. The nut is large and the shell is very thin, brittle, and easily cracked. The kernel completely fills the shell; its quality is excellent. Schley is one of the hardiest varieties. Stuart is another good commercial variety. The nut is large, the shell is rather thick, the kernel fills the shell well, and its flavor is good. Van Deman is a large nut, with a medium-thin shell, and has a good quality of kernel. The tree is a very shy bearer.

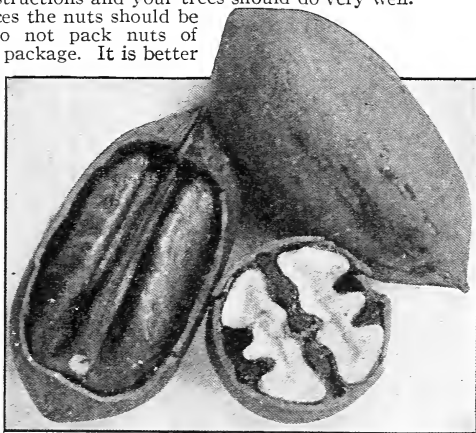
Among the more hardy varieties, Indiana, Mantura, and Money-maker are considered to be superior. The nuts are medium-sized and the kernels are of high quality. These sorts may be safely planted in the colder sections of the South and even as far north as Richmond.

Almost any land in the South Coastal region that will successfully grow farm crops will produce Pecans. The trees should be transplanted in winter when they are dormant. Do not allow the roots to be exposed to the sun when transplanting. If the soil is stiff and clayey, dynamite should be used to dig the holes. Ask the Dupont Powder Company, Wilmington, Delaware, for their booklet, "Dynamite on the Farm." Dig the hole big enough to allow the roots to pass into it without touching the sides. Cut off the ends of the roots but leave the top alone. Set the tree at the depth it stood in the nursery and pack the soil firmly around the roots. Settle the dirt with water and put a mulch over the earth around the tree to help retain the moisture. In dry times water the young tree. Follow these few instructions and your trees should do very well.

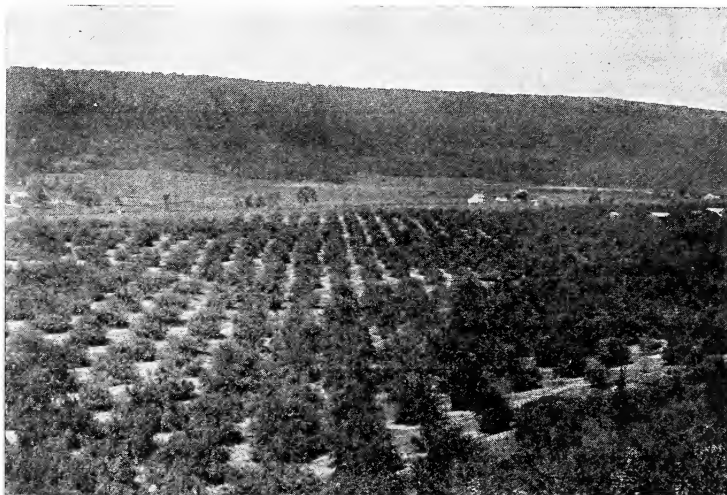
To get the highest prices the nuts should be polished and graded. Do not pack nuts of different sizes in the same package. It is better to market them separately, for they will then bring the best prices.

Both trees and nuts are fairly free from insect pests. This fact should claim the attention of the cotton-planters who have fearfully watched the havoc wrought by boll-weevil.

If you wish any further information on the planting, care, or cultivation of Pecans, write us, asking any questions you wish. We will attend to your request promptly and will gladly tell you what we can.



There's money in Pecans for the Southern planter



An apple orchard is five times as valuable as the same land planted to wheat, corn or cotton

Fruits for the South

Apples

If there is any fruit that may be called a general favorite all over the country, it is the Apple. The trees are hardy, easy to grow, and the fruit is one of the most pleasing. For home use Apples will give you fruit from early summer until the following spring, if you plant the right varieties. If you grow for market, you will always get excellent prices for choice fruit, for there is an ever-increasing demand for good Apples. An orchard does not cost much to plant and keep up, is easy to handle, and a good one is a money-maker; in fact an apple orchard is worth five times as much as grain on the same land. No matter whether you grow for your own use or for sale, you should have an Apple orchard.

In selecting varieties, you should get some that ripen their fruit in early summer, others in late summer, and more in fall. This will give you fresh fruit over a much longer period. The leading summer Apples for either home or market use are Red Astrachan, Red June, Yellow Transparent, Early Harvest, and Horse. Among Apples that ripen in autumn, Bonum, Fall Pippin, Grimes, and Buckingham are the best for general use. There are numerous winter Apples. For the home orchard Delicious, Kinnard, Paragon (Mammoth Black Twig), Rome Beauty, Stayman Winesap, Yates, and York are among the best. Any of these are good commercial sorts.

Apple trees like a soft mellow soil where there is adequate drainage. Almost any soil that will grow good corn or cotton will give excellent results under Apples. The trees should be set out when dormant. The fall is a good time. The hole to receive the tree should be about 3 feet in diameter and 18 inches deep. Work the soil until it is mellow. See that all roots lie as they did in the nursery and then firm the earth about them. If any roots are bruised or

broken, they should be trimmed off smoothly with a sharp knife. While filling in around the roots, shake the tree occasionally to help settle the soil.

When the hole is two-thirds full, pour in two or three pails of water. After the water has soaked in, fill the hole, but do not pack the earth. Simply cover it with a mulch of straw or litter.

Peaches

The Peach is today, without doubt, the best fruit for general planting all over the South. The orange may be better for Florida, but outside the orange belt the Peach is the leader both for home consumption and for market. This fruit has a range of latitude exceeded in extent only by the apple. Many different varieties are grown successfully and profitably as far north as the Great Lakes, and in semi-tropical Florida you will find Peaches grown in great numbers. Of course the same varieties that make money for the man in Florida are not suited for growing in New York, but there are so many different kinds that it is easy to select the proper ones for your section.

People demand Peaches and, in spite of the fact that the trees are largely planted, the supply has never caught up with the demand. This demand is due to the excellent flavor of the fruit, and its value for preserving. The trees are easy to grow, and as they bear enormous loads of luscious fruit in a few years after planting, they should be set out in greater numbers by the folks of the South. The first fruit to reach the markets from northern orchards does not arrive until the first or middle of July. Peaches grown in the South reach the markets in May. This gives the man of the South two extra months to market his Peaches at a time when northern-grown kinds are not to be found. Right here is an excellent reason for more extensive planting of Peach trees in the South.

There are many varieties of Peaches suited to the South and, if a proper selection is made, you can have fresh fruit from May to October. Of course, some varieties are better for home use and others will prove more valuable market fruits. Let us first consider the sorts that are valuable for both purposes. Mayflower is without doubt the earliest. The tree is vigorous and needs watching or it will bear too much fruit. Ordinarily about half of the young fruits should be removed from the tree when they are about a half-inch through.



A Peach orchard like this will buy you an automobile and several other things

Alexander is the next to ripen, soon followed by Greensboro and the Arp. Both are large fruits with delicious flesh. Carman, Hiley and Belle come next. All of these are of the highest class. Other valuable varieties are Elberta, Red Bird, Cling, Champion, Chinese Cling, Heath Cling, Salway and Krummell. All these are high-quality fruits and will prove excellent sorts for home use. The new J. H. Hale Peach is another excellent variety, perhaps the best recent introduction.

Peach trees will thrive on almost any soil that will raise good standard farm crops, but of course the richer the soil, the better will be the reward. In laying out the orchard you should take the highest ground, and, if possible, plant where the earth slopes to the north or west. If your orchard is a little higher than the surrounding ground, you are almost certain to have good drainage. The trees should be set between 15 to 20 feet apart each way, so they will have plenty of room to develop and expand. The ground between the trees should be kept cultivated if you are looking for the best results. Plant about three rows of cowpeas between the rows of trees and do not cultivate so close as to injure the roots, bark the trees, or break the limbs. When the cowpeas are killed by frost, plow them under. They add nitrogen to the soil and make excellent food for the growing trees.

The presence of the Peach-tree borer, perhaps the worst enemy of the Peach tree, is indicated by the appearance, at or near the ground line, of a mass of jelly or sawdust, or both. In April and May and again in September, hoe away the soil from around the tree and examine closely for these signs. With a sharp knife cut away the bark exposing the hole and with a flexible wire search for the borer, spearing and removing it. A few minutes spent on each tree twice a year will thoroughly control this pest.

Pears

Pear trees like a fairly good soil and will do well in either clay, loam, or gravel. The ground should be well drained, so if you plant your orchard on sloping ground, your yield is almost sure to turn out much better. It is not a good policy to have your orchard close to a forest on account of the insects.

There are several varieties worthy of extensive planting. For home use and market we find that Koonce, Seckel, Le Conte, Kieffer, and Magnolia are the most satisfactory and ripen in about the order named. For the home orchard rather than for commercial purposes, the best sorts are Early Harvest, Seckel, and Angouleme.

Plums

This is another valuable deciduous fruit, growing over as wide a territory as the peach. The tree requires much the same soil and care that should be given all fruits, but if there is considerable clay in the soil, better results may be expected. The trees should be planted about 18 feet apart each way and cowpeas or other crops may be raised between the trees. You may also grow strawberries as an intercrop, but if the cowpeas are plowed under after they are killed by frost, they will help the trees to grow and make them more vigorous.

It is generally conceded by growers that the Japanese varieties and their hybrids are by far the best for general planting. In their order of ripening the recommended varieties for the home orchard are Red June, Abundance, Satsuma, Burbank, and Wickson. All these, with the exception of Satsuma and Wickson, are excellent market sorts. Wild Goose is another excellent sort. If in doubt about the proper varieties, consult us.

On account of their heavy bearing characteristics, many Plum trees are greatly injured. Take a look at almost any tree you see in the home orchard; in fruiting time you will see the branches bent down to the ground and the tree almost staggering under its heavy load of fruit. Many people feel proud of



There are dollars and pleasure in a back-yard orchard. The bigger the orchard the bigger the results

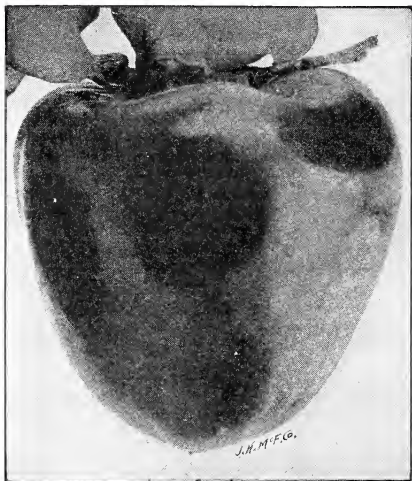
their trees when they look like this, but it is a mistaken idea. Perhaps that overloaded tree will get tired of being worked too hard and the weight of the fruit may break the branches. These heavy crops sap the life of the tree, and if allowed to mature all its fruit, you will get nothing but a short-lived tree at the most. Allow your trees to bear heavily this year, and next year you may have to be satisfied with less than half the crop.

It takes nerve to thin out the fruit, but if you want your trees to continue bearing until they reach old age, go over each one when the fruit is about the size of a dime. Pull off enough fruit so that the tree can comfortably carry its load. If you do this you may expect better results year after year.

Persimmons

This fruit is rapidly coming to the front as a really desirable semi-tropical introduction. The Japan varieties are the best, and when budded on our native varieties, they will grow and bear almost anywhere in the cotton belt, although not adapted to localities north of it.

In soil requirements, Persimmons are not unlike other deciduous fruits. A rich, soft soil will help the trees along wonderfully and increase the quality of the crops. The flesh of unripe fruits of the light-fleshed varieties is astringent or puckery. Dark-fleshed sorts are edible before they are fully ripened. An excellent way, and, so far as we know, the best way to ripen Persimmons is to allow them to hang on the tree until frost is near. Pick them then and take them into the house, where they ripen slowly and to the very center. This method gives a uniform flavor clear through the fruit. Do not think your Persimmons are ripe when they begin to color. Nearly all sorts color when about half grown and this does not indicate ripeness.



Persimmons should be planted in the South

A few years ago Persimmon trees showed a tendency to drop the half-grown fruit. This fault has been overcome and Persimmon-growing made profitable by the introduction of the Gailey variety. This sort is not recommended for its fruit, but for its pollenizing powers. A tree of the Gailey should be planted with every six or eight trees of other varieties to secure proper pollination. Ask us for further information about planting or spraying Persimmon trees.

Satsuma Oranges

Satsuma is the hardiest edible Orange and in northern Florida and all the Gulf Coast region it should be extensively grown. The people living a hundred miles or more inland should turn their attention to other fruits, for Orange-growing is not advisable a greater distance from the Gulf.

A point in favor of the Satsuma for marketing purposes is its early ripening period. It is salable in September, and continues to ripen until November. At this time the big markets are very short on Oranges, for other varieties have not yet begun to ripen. On account of this condition, shipment of "Sats" invariably bring high prices.

In buying Satsuma Orange trees, be sure that you get them from a nursery with a clean bill of health from the inspectors, a certificate showing the trees absolutely free from citrus canker, a deadly enemy to all Orange trees.

Cherries

In the South, where nearly every growing thing does better than in colder climates, it is strange to find such choice fruit as Cherries among the trees that do not come up to their best. In the North, Cherries are at home, but the people of the South have come to consider them as partial failures and neglect to plant the trees. To a large extent this is due, not to the Cherry trees, but to the planters themselves. Cherries will grow in the South if the proper varieties are planted.

Unfortunately no variety has been found that will give entire satisfaction on the coast, but in the Piedmont and mountain sections the sweet Cherries will do fairly well. The most satisfactory varieties of this class are Tartarian, Wood, and Napoleon.

The sour Cherries will succeed in the Piedmont and mountain sections, and grow fairly well in the lowlands. There are four varieties, however, that stand way above all others for general planting. These are Richmond, May Duke, Morello, and Large Montmorency. Dyehouse is a fairly good sort. If planted in dry gravelly soil, these sorts should do well. Cherry trees will not live in wet ground. The earth does not have to be rich, and ordinarily almost any garden soil will be satisfactory to Cherry trees.

Mulberries

Every bird-lover, owner of a chicken-yard, or raiser of hogs in the South should plant the Everbearing Mulberries. They fruit over a long period, come into bearing young, and produce abundantly. The trees will have fully ripened, half-ripened, and green fruit all at the same time, for their fruiting period extends over two months.

The birds fairly revel in them, while the dropping fruit is eagerly sought by chickens and hogs. If the birds are bothering you by eating your raspberries, strawberries, cherries, and other fruits, plant a Mulberry tree nearby. The best varieties (and all named are hardy from Virginia southward), are Abundance, Black English, Hicks, New American, and Downing. Of these, Abundance and Downing are the hardiest. Black English and Hicks are the best for the Carolinas, Tennessee, and all states farther south.

Figs

Figs are delicious, and every family garden should have a few trees. The fruit possesses a high market value and always finds a ready sale. The more noted varieties are Brown Turkey, Brunswick, Celestial, Lemon, and Mag-nolia. In the colder regions of the South, Celestial seems to be the most satisfactory for general planting. In the warmer sections all the varieties are good.

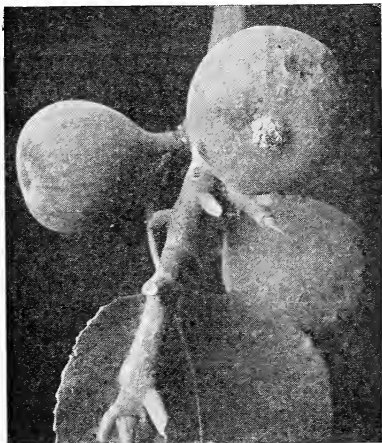
Fig trees should have a little winter protection in the colder sections. Plant them on the south side of a wall or building. An excellent place for the trees is in chicken runs, along the garden fence, near the hogpen, and around out-buildings. The soil should contain plenty of moisture and have good drainage.

Apricots

These are among the most delicious fruits that can be grown in the South. The fruit is about the size of the Japanese Plum, with a flavor fully as delicate as that of the peach. The principal difficulty in growing Apricots is the fact that the trees bloom in early spring and, therefore, are likely to be injured by late frosts. The trees may be protected to some extent by planting them where they may receive the shelter of buildings, or where a windbreak of evergreens will temper the spring winds and ward off frosts. If it is possible to make a definite selection of land, it will be well to set the trees on the south side of a hill.

The varieties that are considered the best are Moorpark, Alexander, and Superb. These ripen in June and July, when other fruits are scarce.

If you don't fully understand the planting, care, and spraying of Apricots, write us. We are fully conversant with the fruit-grower's problems and will give you the benefit of our many years' experience.



Figs are the oldest and one of the most delicious fruits growing in the South

Nectarines

These are among the choicest fruits, and a perfect specimen is one of the most beautiful fruits that can be grown. There are several varieties planted, but New White, Red Roman, and Grady are usually considered the best. On account of the skin being so smooth, Nectarines are subject to attacks of curculio. The most effective way to keep this pest off is to spray, using the same compounds that should be used on peach trees. See instructions on page 32.

Soil and cultivation for Nectarines should be the same as given peach trees.

Quinces

Another excellent fruit that is easy to grow is the Quince. It is one of the most desirable fruits for canning and preserving. Among the prominent varieties are Apple or Orange, Chinese, Champion, Meeche, Pineapple, and Rea. All of these are good, but Apple and Champion are considered a little superior for general planting.

The trees do better in heavy, clayey soils where the drainage is good. If the earth is wet or soggy, the fruit is quite likely to rot on the trees.

Grapes

Among the many small fruits it is hard to find any that are more desirable than Grapes. They can be grown in small space and in many of the tiny back yards in cities and villages. Grape-vines are desirable. They run over the fences, hiding them from view with their large, dark green leaves, and in the fall bearing bunches of the most delicious fruit one could ask for.



An arbor of Grape-vines is a necessity on the home grounds. It furnishes shade and fruit in abundance

Grapes are hardy and are perfectly at home anywhere between the Great Lakes and the Gulf of Mexico. Anyone can grow them successfully, for their cultivation is a simple matter. As a table delicacy Grapes cannot be surpassed and, if you sell your crop, you will always find a ready market and high prices.

There are many varieties of Grapes, but let us consider only those that have proved prolific and profitable in our Southern soil, climate, and conditions. The following varieties are named in their order of ripening: Moore is a large black Grape of poor quality, but is desirable on account of its early ripening. Delaware is light red, sugary and delightful; the best commercial Grape. Winchell is a white variety of excellent quality and flavor. Lutie is large and dark red. Brighton is an excellent red Grape. Niagara is the standard white sort. It has a delicious flavor. Concord is an old favorite. Its color is black. Catawba is the best late sort. In color it is bright red.

If you live in the lower South, the Grapes for you to plant are the Muscadine varieties. They are the most productive of all Grapes. These varieties seldom bear over ten berries to the bunch, but they make up in quality and size for what they lack in quantity, for the berries are usually about an inch in diameter and possess an unexcelled flavor. The following are the leading varieties and ripen in the order given: Thomas, Scuppernong, James, and Flowers.

Grapes may be grown on almost any well-drained soil. Plant the bunch varieties 10 feet apart and the Muscadine types about 15 feet apart in rows 10 feet apart, or on arbors 20 feet apart each way. Write to Washington for Grape Bulletins Nos. 284 and 471.

Strawberries and Other Small Fruits

Strawberries are considered the best of the small-fruit class, both for their food value and their delightful flavor. In North Carolina, Strawberries ripen in April. In fact, they are ready to eat before any other fruit. Coming in as early as this makes Strawberries excellent for market-growers. They are always in demand and good prices are cheerfully paid for choice fruit.



Strawberries are usually considered the best of all small fruits. They are easy to grow and profitable to the enterprising planter

By selecting the proper varieties you can have fresh Strawberries from early spring until frost. Such a collection of equal value for either the home-gardener or market-grower would include the following sorts: Excelsior, Missionary, Lady Thompson, Klondyke, Greensboro Favorite, Bubach, Aroma, Gandy, and Chesapeake. Of course, there are other varieties, but the ones in the above list will give excellent results in the South. Almost any well-drained soil will grow Strawberries. Plant them from October to December, or during February and March, setting the plants about 15 to 20 inches apart each way.

Everbearing Strawberries. The Everbearing Strawberries are really the most important recent introduction. The plants begin to bear in June or July and the berries keep coming until the blossoms are killed by the frost. Of the everbearing sorts Progressive is easily the best. A prominent horticultural authority says: "It is more than Progressive; it is the complete Strawberry." The berries are medium sized and their quality is excellent. While you are picking handsome, luscious berries, the plant you are picking from will have numerous unripe berries and several blossoms, all at the same time. However, Everbearing Strawberries do not do as well in the South as they do in the North.

Raspberries. After the earliest strawberries have come and gone, the Raspberry is the next small fruit that comes into bearing. The leading red sorts for Southern planting are Cuthbert, Miller, Cardinal, and St. Regis. Among the blacks, Gregg, Cumberland, and Kansas are considered the best. Columbian is an excellent purple sort.

Raising Raspberries for either home or market is not difficult. They do well in almost any soil, but prefer a moist location where drainage is good. The red kinds like a light loam, and the black sorts seem to give best results in heavy loam. Set the bushes in rows 5 feet apart and 3 feet apart in the row. After your Raspberry plants have finished their year's fruiting, take a sharp knife and cut back the old canes to about a foot from the ground. This will cause a new growth and make your plants more productive.

Blackberries. Now let us consider another excellent small fruit—the Blackberry. It is easy to grow, and for market or home use it is in high demand. Blackberries ripen in late summer, soon after raspberries. Well-known and desirable varieties are Eldorado, Erie, Early Harvest, Snyder, and Wilson. Cut out the old wood each year, the same as for raspberries.

Dewberries. The Dewberry is very delicious. It resembles the blackberry in form and color, but is higher in quality. Austin's Improved and Lucretia are the leading sorts. Dewberries should be trailed on low trellises or tied to a single stake to prevent the fruit from lying on the ground.

When and How to Pick Fruit

If you grow fruit, it will pay you to grow it well, for "a thing well done is twice done." If you aim to be a successful orchardist, you must pick the fruit at the proper time, regardless of whether you grow for home or market. Of course, there are different times for picking fruit and we could use a dozen pages if we wrote about all kinds. Just let us consider the leading classes, apples, peaches, pears, and plums.

Here is a good way to determine when your fruit is ready to pick. Lift them up, one at a time, give a gentle twist, and, if ready, the fruit will come away cleanly, stem and all. All fruit, except peaches and some varieties of plums, should be kept with the stem attached. This aids in marketing and adds to the keeping qualities. In fact, cherries will not keep unless the stems are attached to the fruits.



It pays to do everything right. When picking your fruit, be careful of both fruit and tree

Some varieties of pears should be picked a week or so before they become ripe. Bartlett, Seckel, and Kieffer are the kinds you should pick early, for they have a much higher quality when ripened in a cool, dark, airy room. The right time for picking depends, to some extent, on whether you grow for your own use or for market. If you are going to keep your crop, let all fruits except quinces mellow on the tree. If your crop goes to market, pick when the fruit is well colored but while it is still firm enough to stand shipping.

In taking the fruit from the tree, baskets will prove better than bags. The handle should be hinged so it will be easier to empty the fruit. Lay the fruit gently in the basket; do not drop it, for a bruise will cause rot to start almost at once.

Use a strong, light ladder, and lay it very gently into the tree so as not to break off any small limbs or fruit spurs, thus reducing the prospects of a crop the following year. For dwarf apple and pear trees, a solid 3-foot bench and a step-ladder should enable you to get all the fruit.

Just as quickly as possible after removing the fruit from the tree, get it into a cool room. Do not allow the fruit to cool gradually in the orchard. Cool it quickly and it will improve the flavor and make it keep longer.

How to Keep Fruit

It is a well-known fact that fruit will not keep well unless it is properly cared for. It must be kept from frost, sudden weather changes, dampness, stagnant air, etc. The best and cheapest way to insure against loss of fruit after picking is to build a fruit cellar. Perhaps that sounds too expensive, but really it costs little, and, instead of being an expense, it is an investment that will pay dividends by keeping the fruit in better condition.

Here is a plan that will work out well. Make your cellar underground. That alone insures against sudden changes of temperature inside; it even excels cold storage. If there is a hill nearby, dig your cellar into the side of it. You do not need to have all the cellar underground. Build the outside section of concrete. At the back of the cellar you should have some means of ventilation. A drain-pipe a few inches across and extending up through the earth to the surface is the proper thing. This arrangement gives free circulation of air when the door is open. Let the air in at the bottom of the door and it will pass through the cellar and out of the pipe at the back. Do not put the fruit on the floor. Build shelves and put it on them.

After the fruit is stored, keep the door closed during the day and open at night. Do this until November. After that just air out occasionally and the temperature will vary but slightly. During winter you will then find it an easy matter to keep the temperature of the storage or fruit cellar very close to the following figures which are recognized as correct: Apples, 39 degrees; cherries, 40 degrees; grapes, 36 degrees; nuts, 35 degrees; oranges, 36 degrees; pears, peaches, plums, prunes, and quinces, 35 degrees. All vegetables should be kept at about 35 degrees. Thus you will see that you can store almost all kinds of fruit at the same time in the same cellar.

What to Do When Your Trees Come

Many people have an idea that a tree will live and grow with any kind of treatment. When the trees arrive, if the land is not ready, or the planter is busy with other work, the trees are taken out of the box, examined, and then left to lie around for a few days. When a convenient time comes, the planter sets out the trees and expects them to start growth at once. Weeks pass without sign of life, and he wonders what can be the matter. He waits a while longer; still the trees show no inclination to grow. He then gets "hot under the collar," and blames the nurseryman for sending him dead trees. Perhaps he writes the man from whom he bought them telling him just how high he stands in the buyer's estimation.

Now that tree-buyer never stopped to consider his trees as living things. Either he did not know, or failed to remember, that tree roots should not be exposed to the air for any length of time. This neglect on the part of the planter was the sole cause of the loss. If he had taken just a few minutes to "heel them in," there would have been no cause for dissatisfaction.

You do not have to plant your trees just as soon as they get to you, but they must be given a chance to live. After they come, open the box or package and check them up to be sure none are missing. Now take the trees out and dig a trench about a foot deep (see illustration on this page). It shows how it should be done.



When your trees come, "heel them in" like this

Lay the roots in this trench and cover with earth. Now the trees are safe until you get time to plant them, but it should be attended to soon. If your trees are frozen when they arrive, do not let that frighten you. Leave them in the box and either put the box in a cellar or bury it. Freezing does not greatly injure the trees; it is the alternate freezing and thawing that does the damage.

If your order is short, sit right down and write the nurseryman. Do not put it off.

Planting the Trees

Much of your success with an orchard depends on how well the trees are planted. When your trees arrive, get them into the ground as quickly as possible. If you are not quite ready to plant, "heel them in," as shown by the illustration; but the trees should not be left in the trench until root-growth starts. Set them out as quickly as possible.

Before planting, lay out the ground or orchard, allowing space enough so the trees will not crowd each other when fully grown. After laying out the grounds, the next thing is to dig the holes. Be sure to make them large enough. Many trees are injured by insufficient root room.

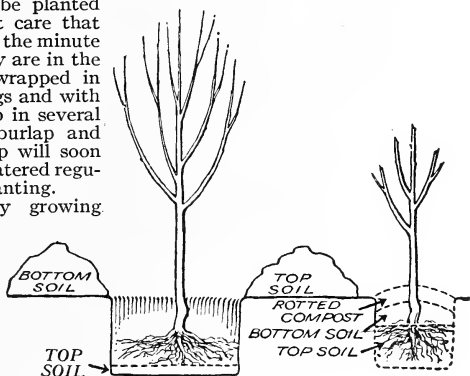
If the soil is soft, you can dig with a spade. If there is an underlying strata of hard sub-soil or shale, it should be broken up with dynamite. The concussion of the explosive will shatter the hard soil, making it easy for the roots to go through and increasing its drainage facilities. Dynamite is opening up a great field for the planter and grower. Drive a hole about 30 inches deep into the hard soil, using an iron bar. Put in one half of a $1\frac{1}{4}$ by 8-inch cartridge of dynamite. This will not throw the soil, but will shatter the hard earth. The Dupont Powder Company, of Wilmington, Delaware, issue a useful book about dynamite on the farm. Ask them for "The Farmer's Handbook of Explosives."

After the holes are prepared, take the trees to the field, covering the roots with a wet blanket so the sun and air will not dry them out. Set the tree at about the same depth it stood in the nursery row. Hold the tree straight, shovel in some soil and see that it settles firmly about the roots, shaking the tree and pressing the soil with the feet or a tamper. Fill the hole even with the surface, but leave the top soil loose to act as a mulch and retain moisture.

Ornamental trees can be set in practically the same way, and if care is taken in planting, you can be almost certain that every tree will live and grow. The holes for ornamentals must be large enough to accommodate the roots without doubling them up or cramping them in any way. Set each tree at the same depth it stood in the nursery. Now put fine soil about the roots, firming it with the feet or tamper and later settling it by pouring on a pail of water. Fill up the hole but do not pack. Mulch with well-rotted manure. Planted this way your trees should thrive.

Evergreen trees should be planted the same way, taking great care that the roots are kept moist from the minute they are unpacked until they are in the ground. If the roots are wrapped in burlap, simply cut the strings and with a sharp knife slit the burlap in several places, and put the ball, burlap and all, in the hole. The burlap will soon decay. The tree should be watered regularly for a few days after planting.

Before setting out any growing thing, look carefully at the roots. If any have been bruised or broken in transit, take a sharp knife and trim the injured members. This does not hurt them in the least. Roses, however, require a little different treatment. Complete details for planting, pruning, and care are given on page 13.



Plant your trees this way and you will have little trouble

Pruning Fruit Trees

Wherever you find a successful orchardist, you will find a man who knows how to prune his trees. Many people fail fully to understand the necessity for pruning fruit trees. Fruit production cannot be expected when the trees spend all their strength and energy making branches and foliage instead of fruit.



Fig. A



Fig. B

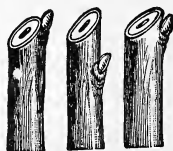
After a young tree is set out, the form it will take depends on the amount of pruning it receives. This point must be determined by judgment and experience. The head of the tree should be open, to allow the sun the better to ripen the fruit. This form should be started by forming the head of the young tree when it is planted (see figure).

Pruning should also be done each year, when the trees are dormant. The best time is early spring, just as the sap is beginning to move upward. Wounds made at this time heal quickly.

For fruit-tree pruning, the best tool is an ordinary saw with an extra-wide set, so it will not bind in the green wood. The teeth ought to be fine, but it is not dangerous to use a coarse-toothed saw. Some people use long-handled pruning shears. These implements are not so good, for they crush the limb before cutting it. Such wounds are slow to heal.

A tree properly pruned has no unsightly stubs sticking out from either the trunk or the branches. These stubs are caused by not cutting closely enough, and very often do not heal cleanly. If the cut is made close to the trunk or branch, it will soon heal. After cutting, it is well to paint the wound. This keeps out the rain and prevents insects from getting at the wood. Always be careful with the pruning tool, so as not to leave any torn or ragged cuts.

Look at the diagrams on this page. They show the right and wrong ways to prune fruit trees. Figure A shows where to cut; if cut at 3, the result will be a long stub and a wound slow in healing. It is better to cut at 2, but it is still too far from the trunk. Cut 1 is in the right place. This leaves no stub, and the new growth will quickly cover the wound.



Figs. C D E

Figure B shows how to remove a side branch. The arrow is pointing to a dotted line; cut at this line. Figure C shows how the cut can harm a bud; this is too low and no fruit will grow at the bud. Figure D is too high. Figure E is cut just right; it is far enough from the bud to allow it to set fruit, but is not too far away.

The method shown by Figure F is injuring many trees. The man who made this cut started close up to the trunk and sawed down through. When the saw was nearly through, the weight of the branch pulled it downward, tearing the bark and trunk. This makes a wound that will be slow in healing, and may never heal entirely. Unhealed pruning wounds shorten the tree's life.



Fig. F



Fig. G

Figure G shows how Figure F should have been done. The first cut was made on the under side and went about half way through the branch. The saw was then started close to the trunk on the upper side of the branch. When the saw is half through the limb will break off cleanly. Then complete the job by sawing off the other half of the limb stub. This will leave a clean wound that will heal over quickly.

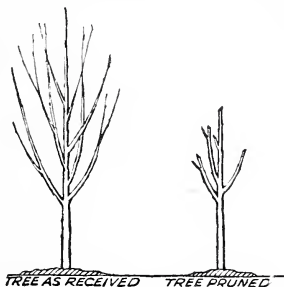
The amount of pruning required for different trees must be taken into consideration. The head of an apple tree should be kept open and all weak branches cut out each year. Watch for dead limbs and cut them out as fast as they appear. Do not let the tree fill up with small spindling branches. Aim to make the head low. Fruit can be gathered easily from low trees, and thus save picking expenses.

Pear trees must be pruned if you want a low tree. Otherwise they will grow straight up, and it will be more difficult to gather the fruit. Prune from the top. Cut above a bud that points outward. Do this every year for a few seasons and you will have an open-headed tree. Seckel pear trees do not require pruning. Leave them alone; they will do better.

Peach trees should be headed when young. Prune out the small branches. This directs the tree's energy toward fruit-making. Each spring go over your peach trees and cut out about one third the length of last year's growth.

Mr. W. N. Hutt, the State Horticulturist of North Carolina, gives the following pruning pointers: (1) Start the tree right; (2) Don't cut out large limbs; (3) Keep your tools sharp; (4) Don't prune in freezing weather; (5) Leave no stubs—cut close to shoulder; (6) Prune annually but never heavily; (7) An axe or hatchet is not a pruning tool; (8) Do your pruning yourself; (9) Keep the tree free from suckers; (10) Paint over the wounds; (11) Never allow your stock to prune trees. These simple instructions should be closely followed.

Hedges should not be trimmed too closely. Some will stand more than others. California privet and Thunberg's barberry can be trimmed short, but it is best not to go too close. Ordinarily a pair of pruning-shears, used two or three times during the summer, will be enough to maintain the shape you desire. If you prune but once a year, the young growth is apt to develop and you will have thick stubs left when you prune. By going over your hedge a few times during the summer months and keeping it even, you will have an excellent appearing hedge that will require but little care.



About Spraying Fruit Trees.

The ravages of the numerous insects that attack fruit trees make it absolutely necessary to spray if profitable crops are looked for. Much of the imperfect fruit you so often see is directly traceable to insects that could be kept away by spraying. Sprayed fruit always brings better prices; so, if you intend to make a profit from your orchards, it will pay you to spray the trees and the fruit at the proper time.

Apple trees should be sprayed at least three times a year. The first spraying should be given in late winter. This will act against the pests that live on the tree over winter and awake to activity in early spring. For this first spraying, commercial lime-sulphur should be used. The mixture should be one gallon of the chemical to eight gallons of water.

The first spring spraying should be done as soon as the leaf-buds open. This will attack the early sucking insects that draw their sustenance from the sap of the tree through the bud. Commercial lime-sulphur should be used in the proportion of one and one-half gallons to fifty gallons of water.

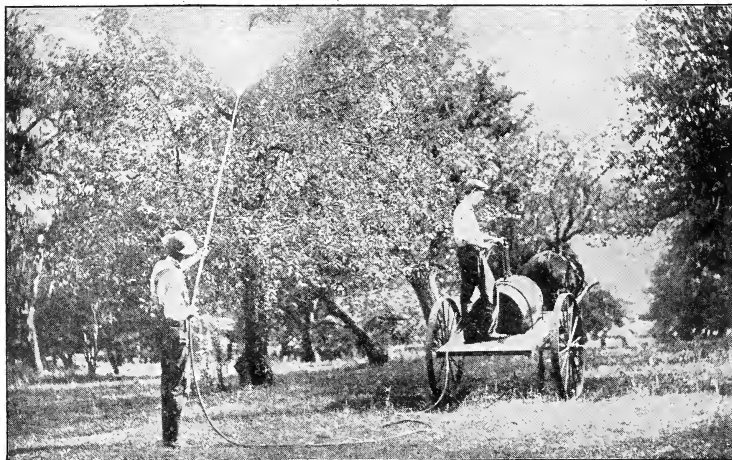
The important spraying period is soon after blooming time, for it is at this stage that the codling moth lays its egg in the open flower, thus producing wormy fruit. The spray must be put on just when the blossom petals have fallen; if you wait longer, the poison cannot reach the insect. For this spray use a solution

of arsenate of lead, at the rate of about two pounds to fifty gallons of water. The lead may also be combined with bordeaux or other mixtures if desired. This spray should be applied at least once after the blooming time, and again ten days or two weeks later to kill the second brood of insects.

Peaches and plums seem to be more susceptible to attacks of San José scale than apples and pears. Spray in late winter, using the lime-sulphur solution. Put a gallon of chemical into every eight gallons of water. In addition to being effective against San José scale, this treatment also keeps off much fungous growth in addition to killing the insects.

Just after the blossom petals fall, you should spray with a weaker lime-sulphur solution, using the "self-boiled" mixture. To get best results, peach trees should be sprayed every two weeks until a month before the fruit ripens. This keeps all fungous growth in check and also prevents the other fruit-tree pests from getting a foothold. Curculio, that pest of the peach- and plum-grower, can be kept away by spraying with arsenate of lead. Just after the blossoms fall use arsenate with "self-boiled" lime sulphur, and repeat the "dose" ten days later.

Pear trees as a rule do not require as much spraying as apples or peach trees. Two sprayings are usually sufficient. The first application should be when the trees are dormant. Fall, winter, or early spring is the best time, but it is not advisable to do it when the temperature is below the freezing point. The mixture to be used is one gallon of lime-sulphur to eight gallons of water. The second spraying of pear trees should be done just after the blossoms fall. Use lime-sulphur, one and one-half gallons to every fifty gallons of water, adding two pounds of arsenate of lead. For more detailed spraying information, write your State Entomologist at the state capital, or your State Agricultural College. The United States Department of Agriculture issue bulletins on spraying. Write to Washington for list of bulletins.



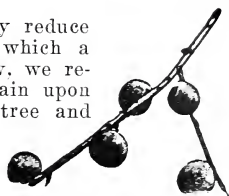
Be sure to get a sprayer that fills your needs. If your orchard is small, a hand sprayer will do; if the orchard is large, get a power sprayer

Thinning



Peaches too Thick on This
Eighteen-inch Branch

"If we can annually reduce the number of seeds which a tree endeavors to grow, we remove a great vital drain upon the strength of both tree and soil. We save fertilizer and we save tree vitality. Incidentally, we accomplish equally as important secondary results. By removing,



Same Branch Properly
Thinned

say one-half of the baby fruit on a tree, the remainder is enabled to grow to a larger and more profitable size; and next season the tree, not having exhausted itself the previous year, is in proper condition to bear another crop, and help to insure full crops every year.

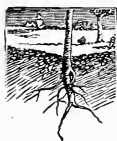
"The time to do the work is after the May drop is about over and before the seeds have hardened. Often it is necessary to pull off, by hand, almost two-thirds of the fruit on a heavily set tree; yet strange as it may seem to those who have not tried it, the remaining one-third, at picking time, will fill almost as many bushels as the fruit of a similar tree unthinned. Which would be most profitable, ten bushels of 'mediums' or eight or nine bushels of 'extra large'? It frequently pays to hire help to do the thinning."—Biggle.

Planting the Tree

This is a very important matter and should be carefully done. Follow the last illustration shown below.



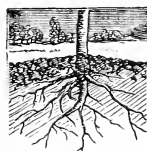
Set too high



Set too low



Roots badly bunched



Set properly

I wish to tell you what good luck we have had with the Roses, Blackberry and Raspberry plants bought from The Howard Nursery early in the spring. The Roses have done better than any young plants I have ever seen. The next time we need anything in this line we shall certainly order from you.—Willie Hunter, Durham, N. C.

The fruit trees have been received and I am well pleased with them. They are the nicest trees that I have ever ordered, and I will give you my next order.—Mrs. C. F. Inman, Wilkinsville, S. C.



Scene in the Nursery. Deodora Cedars in the foreground. The boy is "Sunny Bill." He's a dandy, and so are the plants!

The following pages give accurate statements about the various things we have to sell.

The trees received in seemingly good condition and planted with care. Am hoping for good results.—Mrs. Charles Slocumb, Goldsboro, N. C.

All of the trees I got from you are growing. I am well pleased with them. They are better trees than one gets from the agents for the same money. I expect to send you another order this fall.—Mrs. E. M. Dennis, Macbeth, S. C.

I received my fruit trees all O. K. and in good condition.—T. A. Mansfield, R. F. D. No. 2, Sanford, N. C.

DECIDUOUS SHADE AND STREET TREES

Be sure to read remarks on page 7.

ELM, American (*Ulmus americana*). A very graceful shade and street tree with beautiful, dark green foliage. Makes a handsome appearance on the lawn. 50 to 75 feet.

Prices: 6 to 8 ft., 60c; 8 to 10 ft., 1-inch, 75c; 8 to 10 ft., 1½-inch, \$1.00; 10 to 12 ft., 1¾-inch, \$1.25 each.

GINKGO biloba (*Salisburia adiantifolia*). Maidenhair Tree. A good lawn tree, combining the habits of the conifer and the deciduous tree, with leaves resembling the Maidenhair Fern. Slow grower. 40 to 50 feet.

Price: 6 to 8 ft., \$1.00 each.

JAPAN VARNISH TREE (*Koelreuteria paniculata*). A sturdy tree with ornamental green bark and large leaves, giving a tropical effect. Hardy as far north as Maryland.

Price: 6 to 8 ft., \$1.00 each.



LINDEN, American (*Tilia americana*). Basswood. A valuable lawn and street tree; large leaves; medium grower. Succeeds in almost all soils. 40 to 60 feet.

Price: 6 to 8 ft., 90c.

MAPLE, Ash-leaved or Manitoba (*Negundo aceroides*). Box Elder. A rapid growing tree with foliage resembling that of the ash. Makes a fine, broad, spreading tree. Not subject to scale. 30 to 50 feet.

Price: 6 to 8 ft., 60c; 8 to 10 ft., 85c.

MAPLES—Continued.

Norway (*Acer platanoides*). Absolutely the best all-round street tree. Foliage deep green, dense. Growing more popular and quite largely planted. Requires a good, strong soil. 30 to 50 feet.

Price: 6 to 7 ft., 60c; 7 to 8 ft., 75c; 8 to 9 ft., \$1.00; 9 to 10 ft., \$1.25.

Silver-Leaf (*A. dasycarpum*). Rapid-growing Maple with light green leaves.

Price: 6 to 8 ft., 50c; 8 to 10 ft., 75c; 10 to 12 ft., \$1.00.

Sugar (*A. saccharum*). A well known native tree, tall and stately, with richly colored foliage in the fall. A very popular permanent tree. 40 to 60 feet.

Price: 6 to 8 ft., 75c; 8 to 9 ft., \$1.00; 9 to 10 ft., \$1.25.

Sycamore (*A. pseudoplatanus*). A conspicuous and valuable addition to this useful class of shade trees. Similar to Norway; does not resemble a sycamore. 30 to 50 feet.

Price: 6 to 8 ft., 85c; 8 to 10 ft., \$1.25.

OAK, Pin (*Quercus palustris*). Shapely and symmetrical, drooping branches, broad and shapely pyramidal crown. The leaves are a ruddy green when they unfold and a dark glossy green at maturity, turning a deep, brilliant scarlet in autumn. This is one of the most desirable trees for street and avenue planting, and is one of the most rapid-growing oaks. 25 to 40 feet.

Price: 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.75; 10 to 12 ft., \$3.00.

POPLAR, Lombardy (*Populus nigra fastigiata*). A tall, slender-growing tree; rapid grower; useful in producing attractive effects in many situations. 40 to 60 feet.

Price: 6 to 8 ft., 40c; 8 to 10 ft., 50c; 10 to 12 ft., 75c.

Volga (*P. certinensis*). A new variety introduced from Russia. Superior to both Carolina and Lombardy Poplars, as it is more spreading than the Lombardy and holds foliage later than the Carolina. Beautiful golden-tinged foliage in fall. Rapid grower. 30 to 50 feet.

Price: 7 to 8 ft., 50c; 8 to 10 ft., 75c; 10 to 12 ft., \$1.00.

SWEET GUM (*Liquidambar styraciflua*). A really fine lawn tree, with star-shaped leaves changing to deep crimson in the autumn; corky bark. Succeeds well in the South. 30 to 60 feet.

Price: 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50.

SYCAMORE, or Plane Tree. A fine tree for wide streets, with broad leaves, glossy above, downy beneath. The fruits are balls about an inch in diameter. The trunk of this tree presents a peculiarly mottled effect. 40 to 60 feet.

Price: 6 to 8 ft., 60c; 8 to 10 ft., 90c; 10 to 12 ft., \$1.25.

TULIP TREE (*Liriodendron tulipifera*). A large and stately, rapid-growing tree, with a narrow, pyramidal crown. Leaves four-lobed, bright green and lustrous, turning yellow in autumn. Cup-shaped flowers, greenish yellow marked with orange within at the base.

Price: 6 to 8 ft., 75c; 8 to 10 ft., \$1.00; 10 to 12 ft., \$1.25.

WILLOW (*Salix*). See page 39 for descriptions of Willows in variety.

ORNAMENTAL TREES AND LARGE SHRUBS

The trees in this list are for special purposes, such as specimen plants on the lawn, flowering trees of tall and medium growth, and a few peculiar small trees that might be termed shrubs, but are really too large for that list. Look it over carefully; it will interest you, we feel sure. The dates given are the blooming period ordinarily.

CHERRY, European Bird (*Cerasus Padus*). A shrub or small tree, bearing dense, drooping racemes of white flowers in late spring; profuse. Fruit red or purple-black, about the size of a pea; is a great attraction to birds. Very showy in spring. 20 to 30 feet.
Price: 4 to 5 ft., 75c.

DOGWOOD, Common White (*Cornus florida*). Blooms early in the spring, and bears red berries in the fall. Makes a pleasing effect on the lawn. 20 to 25 feet. April 15 to 30.

Price: 3 to 4 ft., 50c.

Red-flowering (*C. florida rubra*). The flowers are bright pink. In habit of growth, foliage, etc., the tree resembles the other varieties listed here. 15 to 25 feet. April 15 to May 5.

Price: 2 to 3 ft., \$1.25.

FRINGE, Purple, or Smoke Bush (*Rhus Cotinus*). A curious, large-growing shrub, forming a broad, round-headed bush. Delicate fringe-like or feathered flowers in summer; when in full bloom, has the appearance of a cloud of smoke. 10 to 15 feet. May 20 to June 5. Price: 3 to 4 ft., 60c; 4 to 5 ft., 75c; 5 to 6 ft., \$1.00.

White, or Grandfather's Beard (*Chionanthus virginica*). A handsome, free-flowering shrub or low tree, the stout branches forming an oblong, narrow head. Leaves dark green. White flowers, in loose, drooping panicles, appear when the leaves are small. Blue fruit, resembling a small plum. Best in shady places. 6 to 12 feet. May 1 to 15.

Price: 3 to 4 ft., 60c; 4 to 5 ft., 75c; 5 to 6 ft., \$1.00.

HONEY LOCUST (*Gleditsia triacanthos*). A large, spiny tree with spreading, somewhat pendulous branches, forming a broad, flat-topped crown. Foliage dark green and glossy, fading to pale yellow in autumn. Forms an almost impenetrable hedge if planted closely and severely clipped.

Price: 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50.

HOP TREE, or Wafer Ash (*Ptelea trifoliata*). A shrub or small, round-headed tree, attaining a height of 25 feet. Foliage dark green and lustrous, turning yellow in autumn. Blooms in the spring. Flowers greenish white, borne in clusters. Fruit wafer-like, the seed surrounded by a papery marginal wing.

Price: 3 to 4 ft., 50c; 4 to 5 ft., 60c; 6 to 7 ft., 75c.

MAGNOLIA grandiflora. See page 41, under Broad-leaved Evergreens. June 5 to July 10.

Soulangeana. Very hardy and one of the most handsome trees in bloom; its large, spreading head, sometimes 20 by 25 feet, being a

solid mass of thousands of blooms of a rosy pink in bud and light purplish white when fully expanded, making a flower show that is not excelled by any other tree. 20 to 30 feet. April 21 to 25.

Price: 4 to 5 ft., \$1.25; 5 to 6 ft., \$1.50.

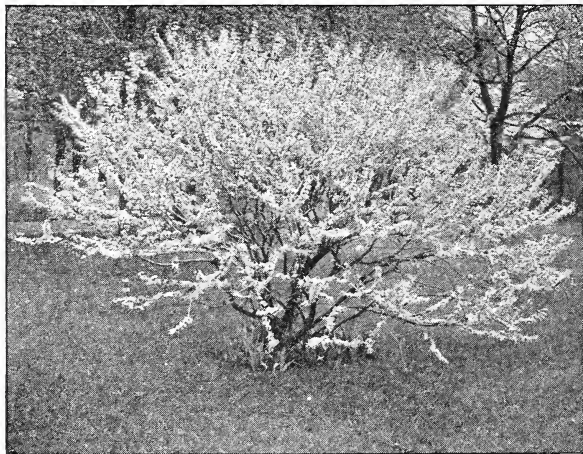
MIMOSA TREE (*Albizzia Julibrissin*; *Acacia Nemu*). An ornamental tree, with spreading branches, feathery foliage, and showy acacia-like flowers which are borne at the tips of the branches in large heads, pink or light yellow and pink. This tree forms a low, flat-topped crown, and is remarkably beautiful in blossom. 20 to 30 feet. July 1 to 25. Price: 4 to 5 ft., 60c; 6 to 7 ft., 75c.

MYRTLE, Crape (*Lagerstroemia indica*). The most popular, midsummer-flowering shrub for the South. A strong grower, reaching a height of 15 to 20 feet, and forming a fine head, which is a mass of fine, crape-like pink flowers. See illustration, page 7.

Price: 2 to 3 ft., 60c; 3 to 4 ft., 75c; 4 to 5 ft., 90c.

PLUM, Purple-leaved (*Prunus Pissardii*). One of the most desirable of the purple-leaved trees, as it retains its color throughout the season and holds its foliage very late. A fine specimen for bringing variety of color into the shrubbery border.

Price: 4 to 5 ft., 60c.



Red Bud (*Cercis Canadensis*)

RED-BUD, or Judas Tree (*Cercis canadensis*). A small, shrubby tree, shapely and uniform; bears masses of reddish purple flowers, resembling small sweet peas, in early spring, before the leaves appear. 15 to 20 feet. Price: 5 to 6 ft., \$1.00.

TEXAS UMBRELLA TREE (*Melia Azedarach umbraculiformis*). A splendid tree with a round, umbrella-like head. A favorite in the South and largely planted.

Price: 3 to 4 ft., 60c; 4 to 5 ft., 75c.

VITEX (*Vitex Agnus castus*). Chaste Tree. An extremely showy shrub or small tree, with wide-spreading branches. Lavendar-blue flowers, borne in dense terminal racemes in late summer. Exhales an agreeable, aromatic odor when bruised. 15 to 25 feet.

Price: 4 to 5 ft., 60c.

WILLOW (*Salix*). These trees are hardy and succeed generally, preferably in a moist soil.

Common, or Babylonian Weeping (*S. babylonica*). Makes a large, weeping tree, one of the most popular Willows for the South. 25 to 40 feet.

Price: 6 to 8 ft., 50c.

Thurlow's Weeping (*S. elegantissima*). Does not "weep" quite so much as the Babylonian Willow; foliage of a deeper green, silvery white underneath. 30 to 50 feet.

Price: 6 to 8 ft., 60c; 8 to 10 ft., 90c.

CONIFEROUS EVERGREENS

For several years past we have been paying special attention to Evergreens, and have succeeded beyond our expectations in producing extra choice specimen trees. See cut, page 9.

ARBORVITAE, American (*Thuja occidentalis*). Valuable as a single specimen and also as a hedge. Grows tall, but can be trimmed to any size or shape. One of the best evergreens for our southern home grounds.

Price: 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.25; 4 to 5 ft., \$2.00.

Chinese (*T. occidentalis*). A rather tall-growing kind, not so compact in growth as the next preceding.

Price: 2 to 3 ft., \$1.50.

Dwarf Golden (*Biota aurea nana*). This variety is notable principally for its foliage, which, as suggested by the name, remains yellow throughout the year. It is small and compact in growth and withal a pleasing ornamental evergreen.

Price: 1 to 1½ ft., \$1.25; 1½ to 2 ft., \$1.50.

Hovey's (*T. Hoveyi*). Dwarf, dense little evergreen, having light green foliage and neat attractive habit. Popular for beds, borders, cemeteries, house decorations, or small, low-growing hedges, giving a pleasing formal effect.

Price: 1½ to 2 ft., \$1.50.

CEDAR, Deodar or Indian (*Cedrus Deodara*). Native of Asia; succeeds well in most parts of the South. The leaves are bluish green, borne in tufts. The cones are brownish, 3 to 5 inches long. Grows in a pyramidal form. 25 to 40 feet.

Price: 2 to 3 ft., \$1.50; 3 to 4 ft., \$2.00; 4 to 5 ft., \$3.00.

HEMLOCK, Canadian (*Tsuga canadensis*). Tall and graceful, dense, pyramidal; foliage deep, glossy green; cones small. Makes an excellent specimen tree.

Price: 1 to 1½ ft., \$1.00.

JUNIPER, Irish (*Juniperus communis hibernica*). Slender, pillar-like; branchlets decidedly erect, growing close to trunk. Foliage bluish green. Price: 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.50.

RETINOSPORA ericoides (*Chamaecyparis spaeroidea ericoides*). Compact growth; very effective on account of its color, turning from violet to green. The leaves are distinct and linear, giving it a healthy appearance. 1½ to 2 feet. Price: 12 to 15 in., \$1.00.
plumosa. Small, dense, plume-like foliage of a light green color. Suitable for massed planting.

Price: 1 to 1½ ft., \$1.50; 1½ to 2 ft., \$2.00; 2 to 2½ ft., \$2.50.
plumosa aurea. Same as the preceding, except the foliage, which is golden. Same price as above.

squarrosa Veitchii. Light bluish green foliage; spreading and prickly; growth very dense, giving the bush a distinct, spongy appearance. A great favorite with those who know it.

Price: 12 to 15 in., \$1.00.

SPRUCE, Norway (*Picea excelsa*). Best known of the Spruces. A majestic tree, originally of Europe; valuable for many purposes, such as lawn and avenue planting, windbreaks, etc. Rather pyramidal in shape, branches spreading and somewhat drooping; cones light brown, 5 to 7 inches long. Price: 2 to 3 ft., \$1.00.

Koster's Colo. Blue. Price: 18 to 24 in., \$3.00.

BROAD-LEAVED EVERGREENS

Read remarks on page 10.

ABELIA grandiflora. A very free-flowering shrub. In the South, the dark, glossy leaves remain on the branches all winter. The flowers, white, touched with pink, are borne in great profusion, and bloom from early summer till frost. They are about an inch long and have a deep, slender throat. Does well in sun or shade. 4 to 6 feet. Illustrated on page 10.

Price: 2 yr., 1 to 1½ ft., 75c; 1½ to 2 ft., \$1.00; 2 to 3 ft., \$1.25.

EUONYMUS, Evergreen (*Euonymus japonicus*). Handsome, large shrub, with glossy green leaves, holding their color all winter; very hardy. Red berries. 10 to 20 feet.

Price: 1 to 1½ ft., 90c.

HOLLY, American (*Ilex opaca*). Well known as "Christmas Holly." The leaves are glossy green, rather thick, thorny along the edges. Berries bright red. Quite hardy. 30 to 50 feet.

Price: 1½ to 2 ft., \$1.25.

LAUREL, English or Cherry (*Laurocerasus*). These are valuable shrubs. Their principal merits are their great vigor, beautiful, broad shining foliage, and ease of cultivation. They thrive in any ordinary, good, well-drained garden soil, but are not hardy north of Washington, D. C. They attain a height of from 12 to 15 feet. The plants do not bloom until they are several years old, when they produce spikes of small, white flowers.

Price: 2 to 3 ft., \$1.50; 3 to 4 ft., \$2.00.

MAHONIA, Aquifolia.

18 to 24 in., \$1.25.

MAGNOLIA grandiflora. Common evergreen Magnolia of the South, with large, handsome white blooms June 5 to July 10, which, combined with its large, glossy green leaves, remaining on throughout the whole year, make this the greatest of all the southern ornamental trees. 30 to 40 feet high.

1½ ft., 75c; 2 ft., \$1.00; 3 ft., \$1.50.

YUCCA filamentosa. Palm Lily; Adam's Needle; Devil's Shoestrings. Evergreen foliage; of tropical appearance. Pure white, fragrant flowers, on stout stems, 4 feet high, centered in the foliage. June 1 to 10.

Price: 3 year, 50c.



What a vast difference in appearance results from an appropriate planting of deciduous trees, shrubs, and evergreens!

HARDY FLOWERING SHRUBS

Read carefully page 11 for instructions on how to use to best advantage.

ALTHÆA (Hibiscus), or Rose of Sharon. Late-blooming shrubs. The varieties listed below offer many pleasing color combinations. 8 to 20 feet. Following is a good list, valuable as single specimens, screens, and hedges:

ALTHÆAS—Continued.

Ardens. Rich purple; fine; double. 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Doile de Feu. Double; red. Price: 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Carneo-plenus. Double; white, with crimson center.

Price: 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Coelestis. A bright, clear violet; semi-double.

Price: 2 to 3 ft., 50c; 3 to 4 ft., 60c.

Duchesse de Brabant. Deep crimson; double.

Price: 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Jean d'Arc. Pure white; double. 3 to 4 ft., 40c; 4 to 5 ft., 50c.

Rubus. Clear red; single. Price: 2 to 3 ft., 40c; 3 to 4 ft., 50c.

Totus alba (Snowdrift). White; single. Price: 2 to 3 ft., 50c.

Seedlings. Assorted colors. Price: 3 to 4 ft., 35c; 4 to 5 ft., 40c.

AMORPHA fruticosa. False Indigo. Long, narrow, feathery leaves.

Flowers dark purple, growing in loose panicles. 5 to 20 feet.

May 15 to 30. Price: 5 to 6 ft., 60c.

BACCHARIS halimifolia. Groundsel Shrub. Branches angular.

Leaves long, narrow, and deeply cut; color dull green. Flowers

white. 6 to 12 feet. September 1 to 15. Price: 5 to 6 ft., 75c.

BARBERRY, European (*Berberis vulgaris*). 4 to 6 feet high; shiny

dark green leaves. Flowers yellow, in early spring; berries bright

scarlet, persisting all winter. Very hardy.

Price: 2 to 3 ft., 40c; 3 to 4 ft., 50c.

Purple-leaved (*B. vulgaris atropurpurea*). Purple leaves. Unique.

Bears red berries in fall and early winter. 3 to 5 ft.

Price: 3 to 4 ft., 50c.



Foundation planting with Spireas predominating

BARBERRY—Continued.

B. Thunbergii. A beautiful Japan variety of dwarf habit. The spray-like branches have spines on them, and are covered with small foliage, changing to beautiful red in autumn. It bears a mass of bright scarlet fruit, which is very attractive during the winter months. Price: 18 to 24 in., 30c; 24 to 30 in., 40c.

CALYCANTHUS. Sweet Shrub. A low-growing shrub. Flowers have a pleasing odor. Foliage dark green. 4 to 6 feet. Price: 2 to 3 ft., 50c.

CARYOPTERIS Mastacanthus. Blue Spirea, or Verbena Shrub. Dense and compact; 3 to 4 feet. Leaves dusty green; showy blue flowers, borne freely in late summer and autumn. Loamy, well-drained soil and sunlight are necessary. Price: 2 to 3 ft., 50c.

CORAL BERRY, or Indian Currant (*Symphoricarpos vulgaris*). An attractive shrub; bright green leaves; red flowers in summer; masses of red or purple berries persisting nearly all winter. Easy to grow. 3 to 5 feet. Price: 2 to 3 feet, 40c.

DESMODIUM penduliflorum. Stems clustered, gracefully arching; 2 to 4 feet tall; literally loaded in early autumn with drooping racemes of rosy purple flowers. Well adapted for planting in front of shrubs. Price: 50c.

DEUTZIA. An upright shrub with an abundance of double flowers. *crenata flore-pleno.* A large-growing variety, with large, double flowers, white, margined with pink. Blooms rather late and remains in bloom some time. 6 to 7 feet. May 15 to June 5. Price: 3 to 4 ft., 40c.

gracilis. Much used in foundation plantings about the home. Flowers white, single, and abundant. 2 to 3 ft. May 1 to 15. Price: 12 to 18 in., 40c.

Pride of Rochester. Large, double, white flowers, back of petals being rose-tinted. Vigorous grower, early bloomer; excellent. 5 to 7 feet. May 15 to June 5. Price: 3 to 4 ft., 50c.

ELÆAGNUS angustifolia. Russian Olive. Fragrant, golden flowers, averaging 2 to 3 inches. Spreading. Price: 2 to 3 ft., 40c; 3 to 4 ft., 50c.

FORSYTHIA viridissima. Golden Bell. Slightly drooping branches. Flowers bright yellow, appearing in early spring before the foliage. 6 to 8 feet. Price: 3 to 4 ft., 40c.

HYDRANGEA, American Everblooming (*Hydrangea arborescens sterilis*). Snowball Hydrangea, or Hills of Snow. This Hydrangea blooms continuously from early May until the end of the growing season. The color is pure white, remaining from four to five weeks, when the flowers begin to change gradually to a light green. June, July and August. Price: 18 to 24 in., 40c.

paniculata grandiflora. The old reliable variety, producing large panicles of white flowers, 6 inches in diameter, in summer and autumn. 5 to 10 feet. July 20 to August 30. Price: 18 to 24 in., 40c; 2 to 3 ft., 50c.

HONEYSUCKLE, Bush, Morrowi. 3 to 4 ft., 50c; 4 to 5 ft., 60c.

JASMINUM officinale. True Jasmine or Jessamine. White flowers, deliciously fragrant, produced in terminal leafy clusters. Leaves dark green, glossy. About 3 feet. May 20 to June 30.

Price: 2 to 3 ft., 50c.

LILAC, Common Purple (*Syringa vulgaris*). The well-known old-fashioned Lilac. Hardy and vigorous; endures neglect and blooms abundantly. 8 to 12 feet. April 10 to 30.

Price: 3 to 4 ft., 50c.

Common White (*S. alba*). Similar to the Common Purple, except for its white flowers. April 10 to 30.

Price: 3 to 4 ft., 50c.

PHILADELPHUS coronarius. Common Mock Orange. A hardy shrub, attaining a height of 8 to 10 feet, with upright, often arching branches. Bright green leaves, 2 to 4 inches long. Deliciously fragrant, creamy white flowers borne in great profusion, appearing in late spring or early summer. May 1 to 20.

Price: 2 to 3 ft., 40c.

Large-flowered (*P. grandiflorus*). Rather tall, with graceful, spreading branches; leaves bright green, 2 to 4 inches in length. Its flowers are the glory of this famous shrub; they are large, pure white, and are borne in pairs of threes. 8 to 12 feet.

Price: 2 to 3 ft., 40c.

SNOWBALL, High-bush Cranberry (*Viburnum Opulus*). Attains 8 to 10 feet in height. Spreading, hardy. Has large, green leaves and showy white flowers in late spring and early summer; masses of bright red berries remain on the plant all winter.

Price: 2 to 3 ft., 40c.

Common Old-fashioned, or Guelder Rose (*V. Opulus sterile*). Hardy; succeeds with little care. Flowers white, in clusters. 6 to 8 feet. April 25 to May 15.

Price: 2 to 3 ft., 50c.

Japan (*V. plicatum*). Surpasses any variety in flowers and foliage if planted in partially shaded places. 6 to 8 feet. April 25 to May 15. See illustration, page 45.

Price: 2 to 3 ft., 60c.

SPIRÆA, Anthony Waterer. Free-flowering, crimson, in rather dense corymbs, a compact shrub, 3 to 4 feet. Blooms June to frost, if kept growing.

Price: 1½ to 2 ft., 50c; 2 to 2½ ft., 60c.

S. alba. Meadowsweet. Usually upright but often drooping gracefully, making a spreading effect. White flowers, in panicles. Blooms July to September.

Price: 3 to 4 ft., 40c.

S. Billardii. Billard's. Brown hairy branches, double-tooth, foliage; bright pink flowers. 4 to 5 feet. June and July.

Price: 3 to 4 ft., 40c.

S. Douglasii. Douglas'. Flowers deep pink, in dense panicles. 4 to 6 feet. Better foliage than that of *S. Billardii*. Upright grower. June and July.

Price: 3 to 4 ft., 40c.

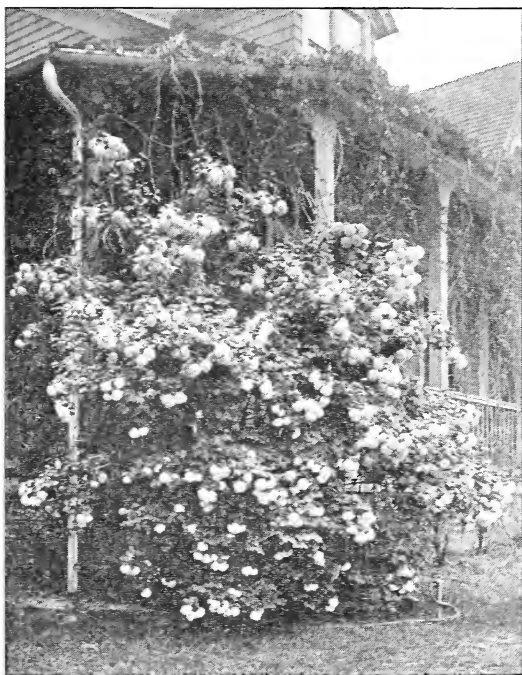
S. Thunbergii. Snow Garland. Very graceful. Branches slender and drooping. Small bright green leaves, giving a feathery appearance. Dwarfish. Pure white flowers in March.

Price: 1½ to 2 ft., 40c; 2 to 2½ ft., 50c.

SPIREAS—Continued.

Vanhouttei. Van Houtte's. A strong, hardy grower of graceful, drooping habit and handsome foliage. When in bloom the last of April the profusion of flowers weigh the slender branches and cover the bush with a beautiful canopy of white. Among the very finest of shrubs and is desirable from every standpoint. 8 to 10 feet. April 15 to 30.

Price: 3 to 4 ft., 40c; 4 to 5 ft., 50c.



Japan Snowball. Prefers shady location

WEIGELA, or Diervilla. One of our best flowering shrubs; should be largely planted. Often has a good second crop of bloom. Flowers cone-like, in clusters along stem. May 5 to 15.

Van Houtte's (D. Vanhouttei). Pink and white flowers. Profuse bloomer.

Price: 3 to 4 ft., 60c; 4 to 5 ft., 75c.

Variegated (D. rosea nana variegata). Variegated leaves. Dwarfish. April 25 to May 15.

Price: 2 to 3 ft., 60c.

DECIDUOUS AND EVERGREEN CLIMBING VINES

Interesting notes and illustration on page 14.

CLEMATIS. The most showy of the blooming Climbing Vines. Require rich soil and annual manuring. They do not make much show the first year after planting, but with careful handling they make a fine display.

Jackmanii. Large purple flowers; the best purple. It blooms continually from July until cut off by frosts, if kept in a thrifty condition. June 1 to 10. **Price: 75c.**

paniculata. Very beautiful, small white flowers. An excellent Clematis of rapid growth; valuable for covering arbors, trellises, and porches. Foliage glossy green; flowers white, borne in long slender clusters, covering the plant in a mass of bloom. Delightfully fragrant. August 10 to 30. **Price: 50c.**

IVY, Japan or Boston (Ampelopsis Veitchii). Of hardy, rapid growth. Leaves bright green, very dense, completely covering the object over which the vine clammers. In the fall, these turn to gorgeous shades of red. Excellent for city planting. **Price: 50c.**

IVY, English (Hedera Helix). A grand, high-climbing evergreen vine, clinging to walls or trunks of trees and often attaining great height. Dark green leaves of exquisite outline and beauty. The climbing or creeping branches do not bear fruit, but in age bushy, spur-like branches with entire ovate leaves are produced, upon which the yellow-green flowers and black berries are borne. **Price: 50c.**

KUDZU VINE (Pueraria Thunbergiana; Dolichos japonicus). A hardy and remarkably vigorous vine, frequently producing stems 30 to 40 feet long in a single season—a regular Jack-and-the-Bean-stalk. In northern latitudes the vine dies down to or near the ground in winter, but in the South it is seldom hurt by the cold and attains considerable diameter. Splendid for covering arbors and verandas. **Price: 40c.**

VIRGINIA CREEPER, or Woodbine (Ampelopsis quinquefolia). Large, handsome leaves, deeply cut into fine lobes. Blue berries, which contrast handsomely with the brilliant crimson shades which the foliage assumes when touched by frost. **Price: 40c.**

WISTARIA, Japanese (Wistaria multi-juga). A fine climber, having purple flowers borne in long, open clusters. May 15 to 30. **Price: 60c.**

Purple. Rapid grower; long, pendent flowers produced quite freely in spring and early summer. Valuable for covering verandas or pergolas. April 10 to 25. **Price: 40c.**

White. Same, except as to color. **Price: 50c.**

ORNAMENTAL HEDGE PLANTS

BARBERRY, Japanese (*Berberis Thunbergii*). The best deciduous Hedge Plant. It is beautiful throughout the year; its abundant crop of bright red berries makes it as attractive in the fall as in the summer. It requires no attention except an occasional cutting back of a few straggling branches.

12 to 18 in., \$10 per 100.

AMoor RIVER PRIVET (*Ligustrum amurense*). The best evergreen Hedge Plant; holds its bright green color both summer and winter. Makes a splendid evergreen hedge, in one year, which is an ornament to any place. Where an evergreen hedge is wanted, plant this variety. The kind most largely planted in the South. Price: 1 year, \$5.00 per 100; 2 year, \$7.00 per 100.

CALIFORNIA PRIVET. (*L. ovalifolium*). Fine for hedging and is a beauty as a single specimen, making a fine shrub for the lawn. Half evergreen; holds its beautiful foliage until late in the winter. Price: 1 year, \$4.00 per 100; 2 year, \$5.00 per 100.

How to Make a Privet Hedge. Privet is usually planted 10 or 12 inches apart, though it should be planted 8 to 10 inches if a very dense hedge at the bottom is desired. A trench 12 inches wide and 18 inches deep should be provided, and some well-rotted manure put in the bottom and covered with soil. If no manure is handy, bone meal will be good. Where the soil is very rich, no manure is necessary. The plants should be set about an inch deeper than they grew in the nursery, after the ground is leveled off. After planting, cut all back even to within 4 inches of the ground. After the plants have made a growth of 6 to 10 inches from the former cut, prune off about one-half the new growth; this can be followed throughout the summer till the hedge is of the desired shape and height. Privet untrimmed will grow to be something like 15 to 20 feet tall.

Tell us your problems as to plantings. We can help you, whether as to fruit trees and plants or relative to ornamental plantings. Consult us freely.

The plants received from you in the spring were hearty and well grown. The Roses are blooming, and are just as you described. We heartily recommend your nursery to those who want fair dealings.—Miss Hattie I. Harris, R. F. D. No. 3, Oxford, N. C.

I received the trees and flowers in good time and condition.—Mrs. M. M. Christian, Raleigh, N. C.

ROSES

The South should be a land of Roses, as we can have so many fine varieties that our friends of the North cannot grow.

See full notation on pages 12 and 13.

Price: All varieties field grown plants, 40c each.

White Roses

Bride. T. White; fine buds; a good, hardy Rose.

COCHET, WHITE MAMAN. T. The flowers are of enormous size, remarkably round and full; when grown out-of-doors it is slightly pink like Bride, but the pink only adds to its beauty, and it is delightfully tea-scented. It is by far the finest and most reliable bedding Rose yet produced. Very strong grower, hardy.

Devoniensis (The Charming Magnolia Rose). T. An old favorite. The color is creamy white, with rosy center; very fragrant. It produces an abundance of large, very full and double flowers all through the season. Should be in every garden.

Frau Karl Druschki (Snow Queen). H. P. The white Rose par excellence. Strong, upright grower, producing its paper-white flowers in the greatest profusion. Should be planted freely.



KAISERIN AUGUSTA VICTORIA. H. T. An extra fine, white variety; very large, full and double, almost perfect in form, and it continues beautiful even when fully expanded.

Pink Roses



COCHET, PINK MAMAN. T. No finer Rose than this. The color is a deep rosy pink, the inner side of the petals being a silver-rose, shaded and touched with golden yellow. No Rose surpasses it in vigorous growth and in the immense size of its buds and flowers. For summer cut-flowers it is a wonder. Deliciously fragrant.

Killarney, Pink. H. T. The beautiful Irish Rose. The bush is strong, sturdy, and upright, with beautiful, deep, bronzy green foliage. The color is deep, brilliant, sparkling shell-pink.

Madame Lambard. T. In bud and bloom it is lovely, pure pink, changing, when older and fully expanded, to a rosy bronze. A free bloomer, large flowers; very strong grower.

Mrs. B. R. Cant. T. Brilliant dark pink; beautiful when fully expanded and keeps well. Blooms large, and double, borne on long, stiff stems. A strong grower and free bloomer.

Paul Neyron. H. P. Bright pink; the largest of all H. P. Roses; full; grand.

RADIANCE. H. T. Vigorous, upright, great profusion of foliage. Brilliant rosy carmine. Blooms constantly and is delightfully fragrant. The large buds are especially lovely.

Wm. R. Smith. T. This Rose has been rechristened as Maiden's Blush, and also as Jeannette Heller. As a summer bedder this variety ranks up with the two Cochetts, producing immense quantities of fine flowers of creamy white with pink shadings.

Red Roses

Baby Rambler. Flowers like Crimson Rambler except in large clusters. The Baby Rambler is a dwarf bush Rose, and a true ever-bloomer, blooming constantly and heavily from May until November.

ETOILE DE FRANCE. H. T. Plants form strong, upright bushes with splendid green foliage. The flowers are simply gorgeous; rich, velvety crimson, full, very large, double, and cup-shape, fragrant.

Eugene Marlitt. B. A grand garden Rose; exceptionally healthy, vigorous, and free blooming. Flowers are large, very double, of a rich bright carmine with scarlet tones. Fragrant. Splendid.

General Jacqueminot. H. P. Rich velvety scarlet; large, fine bloomer.

Gruss an Teplitz. Virginia R. Cox. China. The sweetest and richest crimson Rose. The intense, dazzling color of this Rose is found in no other variety. Fiery crimson, shaded with a dark, velvety sheen.

HELEN GOULD. H. T. One of the best light red Roses; strong grower; free bloomer; large flowers; color warm, rosy crimson.

Meteor. H. T. One of the best everblooming Hybrid Teas; dark velvety red; hardy.

RHEA REID. H. T. The color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and of splendid substance. It has a strong disease-resisting constitution, makes a rapid growth, throws up a profusion of canes from the roots and is always blooming.

ULRICH BRUNNER. H. P. A very large Rose of rich crimson; flowers full, well formed, and very fragrant. Plant is hardy and a free bloomer.



Yellow Roses

- Blumenschmidt.** T. Color deep golden yellow of the richest and purest shade. Where Roses are grown in the open for cut-flowers, this Rose should be planted.
- Cochet, Yellow.** T. The color is a good sulphur-yellow on first opening, changing to a delightful rose color as the flower gets age, when it takes on this rose-shade. Not so good as the White and Pink Cochets.
- Etoile de Lyon.** Buds and blooms both very double and of large size, color deep yellow golden. It blooms freely.
- Herzogin Marie Antoinette.** H. T. Large perfect flower of pure orange and old-gold. Very long buds.
- Isabella Sprunt.** T. Lemon-yellow; large, full, hardy; good grower and bloomer.
- Lady Hillingdon.** Long stems; long, slender pointed bud of brilliant deep golden yellow.
- Safrano.** T. Apricot-yellow; fine form; splendid old Rose. Good grower.
- Souvenir de Pierre Notting.** T. Strong, bushy habit, Cochet type, very large blooms.
- Sunburst.** Long pointed buds. Color orange-copper. The yellowest of all Roses. Does not fade.

Climbing or Pillar Roses

- CLIMBING BABY RAMBLER.** Very similar to the dwarf Baby Rambler in general appearance, except that it climbs. Strong.
- Climbing Killarney.** A climbing form of the famous pink Rose Killarney. It blooms continuously throughout the season, and the flowers are magnificent; immense, long, pointed buds.
- Climbing Kaiserin Augusta Victoria** (Mrs. Robert Peary). This is the first white, climbing, everblooming Rose ever brought to notice; a sport from the bush Kaiserin; flowers exactly the same; hardy all through the South; a strong grower.
- Climbing Meteor.** One of the most satisfactory Climbing Roses in our list. The blooms are produced very freely and for an unusually long time. The buds are pleasing in form, while the rich, velvety crimson, full-open flowers are simply magnificent.
- CLIMBING WHITE MAMAN COCHET.** A vigorous plant, and a good bloomer, equaling the bush form.
- Dorothy Perkins.** Similar to Crimson Rambler, but pink instead of red. A strong Climbing Rose, free bloomer.
- EXCELSA.** Rambler. A good, free grower, with a great profusion of almost evergreen, rich, glossy grand foliage. Great clusters of crimson bloom. One of the very finest of all the Climbers, and one that should be in every rose garden. Succeeds Crimson R.
- James Sprunt.** T. Velvety crimson; very double; fine bloomer. Dandy foliage.
- MARECHAL NIEL.** T. Golden yellow, lovely buds; most popular Rose in the South, and deservedly so.



Marechal Niel Roses

Pillar of Gold. T. Vigorous, producing large, double buds and flowers of perfect form. Color rosy pink, base of petals yellow; a free bloomer.

REINE MARIE HENRIETTE. T. Red; full, well formed; a fine Rose.

Wichuraiana. From Japan. The pure white single flowers appear in greatest profusion in July, after the June Roses are all past. Foliage evergreen in the South.

Wichmoss. C. M. A cross between Wichuraiana and Moss Rose. Makes good growth, 5 to 8 feet, with glazed resistant foliage. The bud is mossed in bright green. Flowers in clusters.



Just imagine how barren and uninviting this "homey" place would be without the plantings!

LANDSCAPE DESIGNING

We have a working connection with a capable landscape architect and shall be glad to go into this department in detail by letter. We can render you satisfactory service.

HOME ORCHARDS

Every home in "Dixie" should have a complete orchard, but alas, how few! It is easy if you follow the suggestions given in the preceding pages of this booklet. Let us help you have a good one.

I beg to state that all of the stock I ordered from you is living and doing well. I wish to thank you for the very courteous treatment received in connection with this, my first order of trees from you. I expect to need a few more trees and vines next fall, and will send you my order in proper time, as it is a pleasure to do business with people where frankness and confidence seem to predominate.—T. A. Mitchell, Newport News, Va. (Chief of Police.)

The stock that I got from the Howard Nursery has done well.—Miss Dora Johnston, Burgaw, N. C.

GRAFTED AND BUDDED PECANS

Price: 2 to 3 ft., \$1.00 each; 3 to 4 ft., \$1.25 each; 4 to 5 ft., \$1.50 each.

You will be interested in remarks on page 16.

Delmas. A large nut of good quality. Shell of medium thickness and usually fills well. Tree a very strong, healthy grower and early and prolific bearer.

Frotscher. Large; forty-five to fifty to the pound; shell very thin, but rather poor in quality. Good grower; bears early.

Indiana. Originated about twenty miles north of Vincennes, Indiana. Medium, remarkably thin shell, and is well filled with a kernel of excellent quality. The flavor somewhat resembles that of a shell-bark. We consider this variety by far the most hardy Pecan now being propagated and especially recommend it for the northern edge of the Pecan belt.

Mantura. Originated in Surry County, Va. A large, well-filled nut, with very thin shell. Flavor sweet and quality good. Tree hardy and a good bearer.

Money-maker. Size medium; kernel plump; quality very good; ripens very early. A strong, healthy, vigorous-growing tree and very prolific bearer.

SCHLEY. There is no better nut grown than the Schley Pecan. It is a good cropper and, although the crops are not quite so heavy as Money-maker or Stuart, it invariably brings higher prices. Better plant Schley trees. Shell thin.

STUART. A large nut, averaging forty or fifty to the pound. The tree is strong, upright, and bears heavy crops of plump nuts. An excellent commercial variety. Shell thin.

Van Deman. Very large nuts, forty to forty-five to the pound. Prolific as Schley after the tenth year. Shell thin.

WALNUTS

JAPANESE

Price: 50c.

By simply dropping the nuts into boiling water for a few minutes and cracking by a slight tap while hot, the shell readily parts and kernel can be extracted whole.

Sieboldii. Nuts medium size; thick shell; kernel sweet and good. A young and heavy bearer where it does well—in coastal section.

Cordiformis. Heart-shaped; thinner shell than Sieboldii.

BLACK. Common American. Valuable for timber and nuts.

Price: 60c.

ENGLISH, Seedlings. A fine nut; large size; cracks easily; quality fine. Price: \$1.00.

Budded. The budded varieties are much superior. We offer only the best sorts grown. Price: \$2.00.

ALMONDS. Two varieties, hard shell and soft shell. Price: 50c.

APPLES

Early and Summer Apples

Refer to page 18 for orchard scene, etc.

Ripening time given below refers to central-western North Carolina. In Virginia the season will be a week later; in eastern North Carolina, South Carolina, and Georgia, a week earlier; and about two weeks earlier in middle and southern Alabama and Mississippi. These varieties are arranged about in the order of their ripening; this will be very helpful when making your selection of trees.

Prices: 4 to 5 ft., 2 yrs. and 1 year, Standard, 40c each;
4 to 6 ft., Selected, 50c each.

MAY. Small, nearly round; pale yellow; pleasant subacid, prolific, hardy, and very popular on account of its earliness.

EARLY COLTON. One of the best early Apples. Medium to large; yellowish white, with a reddish blush next to the sun; flesh yellow, good.

EARLY HARVEST. Medium to large; pale yellow; rich, sprightly flavor. June.

YELLOW TRANSPARENT. Medium size; skin clear white at first, becoming pale yellow when mature; flesh white, tender, juicy, subacid; quality good to very good. Very prolific; dwarfish. June.

LIVLAND. Ripens with Yellow Transparent; of striking beauty. Yellow, overlaid with splashes of light red and pink. An early and prolific bearer; quality very good.

RED JUNE. Medium to large, oblong, conical; dark red. Flesh tender, mild, subacid; commences to ripen early in June and continues six weeks. Splendid eating Apple.

RED ASTRACHAN. Rather large, roundish oblate; covered almost entirely with deep red. A good cooking and market variety. Tree strong, hardy. June.

WILLIAMS' EARLY RED. This variety we believe to be one of the best early summer Apples for market or home use. Medium size; dark red, subacid.

STAR. One of the best midsummer Apples; 10 to 12 inches in circumference. Yellowish green with a faint blush next the sun. Quality good, fine for cooking. August.

HAMES. Large, roundish, whitish, striped, splashed and mottled with light and dark red, sprinkled with yellowish and brown dots; flesh white, rather firm, juicy, brisk subacid; quality good. August.

SUMMER BANANA. Size medium; color yellow, covered with stripes and flashes of light red and pink; quality fine, with a decided banana flavor.



HORSE. Large; yellow, occasional blush next to sun; oblate conical; subacid and good. A very popular old variety for cooking, drying and cider. August.

Autumn Apples

BONUM. Medium; roundish oblate; red, sprinkled with white on greenish yellow ground; rich, juicy, and of very fine quality. Early winter in western North Carolina.

BUCKINGHAM. Very large, oblate conical; covered with red stripes and blotches on a greenish yellow ground. September and October.

Rome Beauty. Large, roundish, slightly conical; bright red on pale yellow ground; juicy, fine-grained, good quality. Early winter in western North Carolina.

GRIMES. Medium; oblong; rich yellow color; flesh yellow, rich, with a very delicate, fine flavor. Considered the highest in quality of the fall Apples. October to November.

Roxbury (Boston Russet). Large, roundish oblate, flesh yellow, slightly crisp, with a good subacid flavor. October to December.

Virginia Beauty. Large, conical; red; flesh yellow, rich. Very good. Late fall; early winter in western North Carolina. Well known for over fifty years; decidedly worthy.

Winter Apples

Ben Davis. Healthy, vigorous, an abundant bearer; fruit large, handsome, striped; flesh tender, juicy, subacid; fair quality.

BLACK TWIG (Paragon; Arkansas Mammoth Black). Large, roundish; dark mottled red, fine-grained, subacid. Tree strong and an abundant bearer. One of the best.

DELICIOUS. Considered by many to be the finest winter Apple in the world. Large; almost covered with dark red, and truly delicious—sweet, slightly acid; fine-grained and juicy. Prolific bearer, and a good keeper. Late fall along the coast.

Jonathan. Medium size; nearly covered with brilliant stripes of clear red on a pale yellow ground; flesh white, very juicy, spicy, subacid, moderately rich. Fine keeper; productive.

Limburtwig. Red. Succeeds well in Wilkes and adjoining counties, North Carolina, and in Patrick and adjoining counties, Virginia. Medium, roundish, dull red; good keeper.

STAYMAN (Stayman Winesap). Medium to large; yellow and red, with dots. Tender, juicy, subacid, quality best; good keeper. One of the most popular Apples, and deservedly so.

Shockley. Medium; roundish; greenish yellow, with red; quality good. December to April.

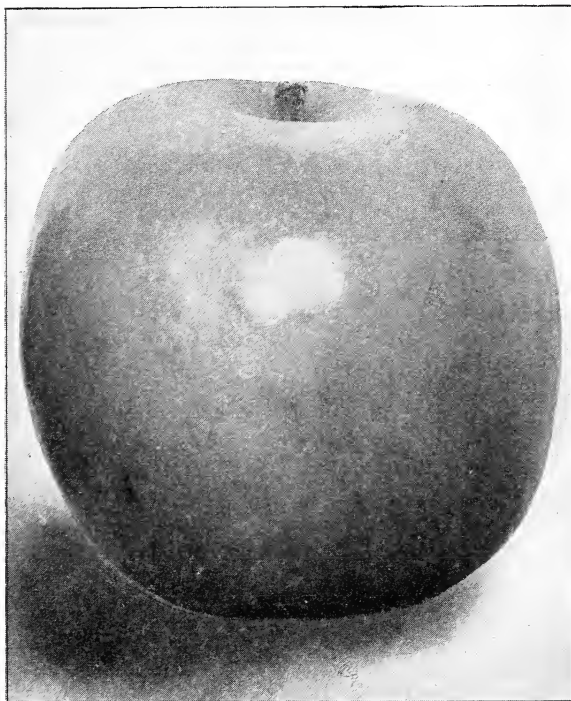
Springdale. Large; red, with lighter shades; keeps all winter, not good before January. A good grower. Succeeds well in most sections.

Terry (Terry Winter). Ripens late and keeps well. Fruit medium; yellow and crimson and of fine quality. Should be more largely planted in the South.

WINESAP. Medium; roundish; red, on yellow; fine, crisp, highly flavored. A good old Apple that can't be beaten. Does well everywhere in this section.

Yates. Small winter Apple; juicy and extra fine flavor; prolific bearer. Keeps well through the winter. Succeeds all through the cotton belt and the Piedmont sections.

YORK IMPERIAL (Johnson's Fine Winter). Large, nearly round; whitish, shaded with crimson; flesh yellowish, crisp, juicy, sub-acid. Does well almost everywhere. Midwinter.



York Imperial



PEACHES



You will be interested in the remarks
and picture on page 19.

Prices: 4 to 5 ft., Standard, 40c; 3 to 4 ft., 30c.

May Peaches

MAYFLOWER. The earliest Peach, the latest to bloom. Color, red all over. Fruit medium, slightly oblong and pointed; juicy and good. The beautiful solid red of the Mayflower makes it sell well on the markets. On account of blooming later than most varieties, thus rarely getting killed by late spring frosts, it sets too much fruit, and in order to keep it from overbearing and to have large fruit, it is **very necessary** to thin this variety. Last week in May. Semi-cling.

June Peaches

✓ **Victor.** Origin Texas. Closely follows Mayflower; good size; well colored, flesh white, skin white, covered nearly all over with light red. A valuable sort.

Sneed. A valuable early Peach. Size medium to large; color greenish white with a crimson blush, slightly mottled on end. When ripened on tree it is good, and the skin comes off easily with the fingers. Ripens five days after Mayflower. Semi-cling.

ARP (Arp Beauty). One of the best early Peaches, valuable for home, orchard and market. Fruit medium to large; flesh yellow and quality good. Ripens with Greensboro. Excellent shipper, making it a particularly good commercial sort. Nearly free—semi-cling.

Alexander. Medium; quality fair; color bright red; tree hardy and good bearer. Sells well on markets. June 15 to 20. Semi-cling.

Greensboro. Fruit large, well colored and a heavy bearer. Flesh white and juicy. Semi-cling.

Red Bird. Hardy tree, good bearer, fruit brilliantly colored, good quality and a splendid shipper. June 15 to 20. Cling.

Received the trees, etc., in due time and in good condition.—John W. Heptinstall, R. F. D. No. 2, Littleton, N. C.

The trees I ordered from you arrived in perfect condition, and I was highly pleased with them.—Mrs. Mary Lowery, Wingate, N. C.

July Peaches

- CARMAN.** Large, well colored. Bears well; good shipper. First half of July. Semi-cling.
- Connett** (Connett Southern Early). Fruit large, creamy white with a blush; small seed; quality good. Rather tender for market, but a valuable family sort. Ripens with Carman. Nearly a free-stone.
- HILEY** (Early Belle). A seedling of Belle of Georgia, but ten days earlier. Rich creamy white, with fine blush. Good market sort. Freestone.
- Early Crawford.** Large; yellow; fine quality. Ripens July 20. Free-stone.
- Champion.** Large, round; sweet, rich and juicy; creamy white, with red cheek. Good bearer. Of Oldmixon family. Latter part of July. Freestone.
- BELLE** (Belle of Georgia). Large; skin white, with red cheek; flesh white, firm and of excellent flavor. Fruit large and showy; prolific bearer. July 25 to 30. Free.
- Chinese Cling.** Large; skin transparent cream-color, with marble of red next the sun; flesh creamy white; very juicy and melting. July 25. Cling.
- Stonewall.** A seedling of Chinese Cling, which it resembles very closely, but, being so hardy and prolific, it bears three times as much fruit. Ripens same season. Cling.
- Burke.** Very large, roundish oblong; skin pale cream-color, slightly shaded on sunny side with red. Flesh white, juicy, melting and sweet. Last of July.
- Preston.** Large; similar in appearance to Chinese Cling; higher colored, but more hardy and a better grower; ripe just after that variety; best quality. Cling.

August Peaches

- ELBERTA.** Large; golden yellow, striped with red; flesh yellow, juicy, sweet and rich; tree prolific; strong grower. Hardy; apparently free from rot. In quality, quantity, and profits, the Elberta is one of the greatest market Peaches. August. Free-stone.
- Late Crawford.** Large; yellow, with red cheek. August 10. Free-stone.
- MUNSON FREE.** Very prolific, rarely failing. The fruit is of large size, well colored and of delicious flavor. August 5 to 15. Free-stone.
- CARUTHERS.** Large; white flesh; red cheek; splendid quality; productive. August 5 to 15.
- Matthew's Beauty.** One of the best late August freestones. Very large; yellow.

September Peaches

Beer's Smock. Large; yellow; an improved seedling of the old Smock, and is highly prized as a canning, drying and market variety. First week in September. Freestone.

Fox Seedling. A valuable freestone sort for home, canning or market. Excellent quality; melting, sweet, highly flavored; white, with red cheek. Trees bear regularly.

Heath. Large; white, rich, juicy. Ripens first half of September. Cling.

SALWAY. Large; creamy yellow, with a rich crimson-yellow next the sun; flesh deep yellow, slightly stained with red next the seed. High in quality. September. Free.

Eaton's Gold. Medium; yellow; with a peculiarly fine apricot flavor; the finest yellow cling for the last half of September. Especially good for sweet pickles. Cling.

October Peaches

Bilyeu. Large; white, with a lovely rose cheek; flesh white, very rich, firm and juicy. A popular canning and shipping Peach for the mountains. Early October. Freestone.

GLADSTONE. Large, roundish; flesh light yellow, rich, melting juicy, not inclined to toughness, as are other October cling Peaches; skin light yellow, overlaid on one side with splashes of crimson. Prolific. Seeds small, cling.

Stinson. Large; red blush; handsome; excellent quality, keeps well. Cling.

I wish to express to you my thanks for the splendid nursery stock that you sent me last spring. The Roses were good, hardy plants, and gave evidence of careful training. The Grape Vines sent me, while set out only this year, are bearing Grapes. I have recommended your company to several of our people here, and should you care to send me a complete catalogue of Hardy Shrubs, Shrub Trees and Roses, I will be only too glad to show it over in our suburb, which is the prettiest suburb around Macon. I hope that our dealings in the future will be as pleasant as those in the past.—E. H. Hyman, General Secretary Chamber of Commerce, Macon, Ga.

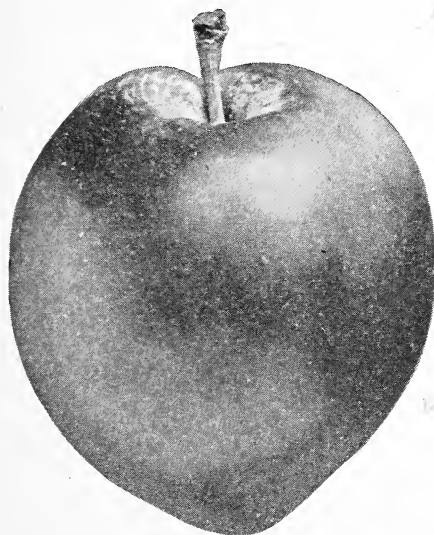
We are altogether pleased with our trees; also our dealings with you have been pleasant and satisfactory.—Mrs. M. M. Hench, General Superintendent, Boydton Institute, Boydton, Va.

PLUMS

Read carefully page 20; it will interest you.

Price: 50c each.

Japanese Plums in Order of Ripening



Red June Plum

RED JUNE. Early; ripens with early peaches; medium to large; enormous bearer; color red all over; fruit pointed; flesh yellow and very fine in quality. Extensively planted for domestic use and for shipping to markets within a reasonable distance.

ABUNDANCE. Medium, roundish; skin yellow, washed with purplish crimson, with a blush; flesh yellow, juicy, subacid, with apricot flavor. Quality superb. First week in July.

✓ **Burbank.** Large; clear cherry-red; flesh deep yellow, very sweet and agreeable flavor. Tree a vigorous grower and very prolific. Last half of July.

✓ **Chabot.** Similar to Abund-

ance, but nearly a month later. Large; yellow ground, nearly covered with crimson; flesh yellow, solid, fine quality.

✓ **White Kelsey.** Size and shape of old Kelsey; creamy color. Delicious flavor. No rot. Last of July.

✓ **Wickson.** Very large; glowing carmine; flesh firm, sugary and delicious. The largest of its class and the best keeper. Mid-August.

Miscellaneous Varieties

✓ **Wild Goose.** The best of the Chickasaw group. Large, red. Well known.

✓ **Purple Damson.** The old standard for preserving.

✓ **Shropshire Damson.** Dark purple, juicy, larger than the common Purple Damson.

JAPAN PERSIMMONS

See page 21 for interesting notes.

Price: 75c each.

Okame. Dark red; showy; flesh yellow, few seeds, rather astringent.

Triumph. Good quality; yellow; very productive.

Tane-Nashi. Large, conical; light yellow, changing to bright red. Flesh astringent until fully ripe.

Yemon. Bright yellow; generally seedless; good. Large and smooth.

PEARS

See page 20 for remarks.

Price: 60c each.

Summer Pears

KOONCE. The best very early Pear. Ripens a week before the Early Harvest. Medium to large size; yellow, one side covered with red; does not rot at the core; very productive; handsome and vigorous.

Early Harvest. Tree a strong grower; hardy. Fruit large, yellow, with a showy blush. Valuable for market. Last of June.

Early Green Sugar. Below medium size; juicy and good. Very hardy, and bears a heavy crop each year. First week in July.

SECKEL. Small, short; yellowish brown, with russet-red cheek; rich, juicy and melting. Extra fine quality. August.

Bartlett. Large, yellow, rich, juicy, fine-grained flesh, tender and melting. Early August.

Autumn Pears

Duchesse d'Angouleme. Very large; short Pear-form; pale green and brown; very juicy, rich. Best of the very large Pears. September.

Conkleton. From Texas. Similar to its parent, Le Conte, hardier in tree; a young and prolific bearer. Fruit size of Le Conte; better in quality, firmer in texture; a fine shipper.

Le Conte. Fruit large and fair quality. Young and very prolific bearer; tree very hardy. Its beautiful fruit and foliage make it decidedly ornamental as well. September.

Winter Pears

Japan Golden Russet. Unusually productive; bears in clusters; early. Medium size, flat or apple-shaped. Rather poor quality.

GARBER. As hardy as the Le Conte or Kieffer, and of same class. In growth and appearance much like Kieffer; ripens one month sooner and is of better quality.

KIEFFER. Originated near Philadelphia. Supposed to be a seedling of Chinese Sand Pear crossed with the Bartlett. Size large; very handsome, skin yellow, with a bright vermilion cheek; juicy, with a musky aroma; quality good when fully ripened. As near blight-proof as a Pear can be. The tree is a rapid grower and very hardy. The fruit ripens late and is a better eating Pear when pulled and laid away for several weeks. Under the right conditions, it can be kept until Christmas, but the best thing about it is its canning, cooking and preserving qualities. It is superior for this purpose to all others.

Magnolia. Origin south Georgia; large, broad to roundish; surface smooth, yellowish russet, tinged with brown on the sunny side. Dots numerous, irregular; flesh white, crisp, tender, juicy, mild, subacid, quality medium. Three or four weeks later than Kieffer.



Magnolia Pear Tree,
2 years old, loaded
with fruit

CHERRIES

Note at bottom of page 22 gives some interesting facts.

Price: 75c each.

Hearts and Bigarreaus (Sweet Cherries)

Tartarian. Large; dark red, nearly black. A splendid Cherry for eating fresh. Ripe middle of May.

Governor Wood. Large; light yellow; season middle of May.

Napoleon. Large; pale yellow. Early in June.

Turner's Late. Medium; black; prolific. Middle of June.

Dukes and Morellos (Sour Cherries)

May Duke. Rather large; dark red. May 20.

Richmond. Medium red. Middle of May.

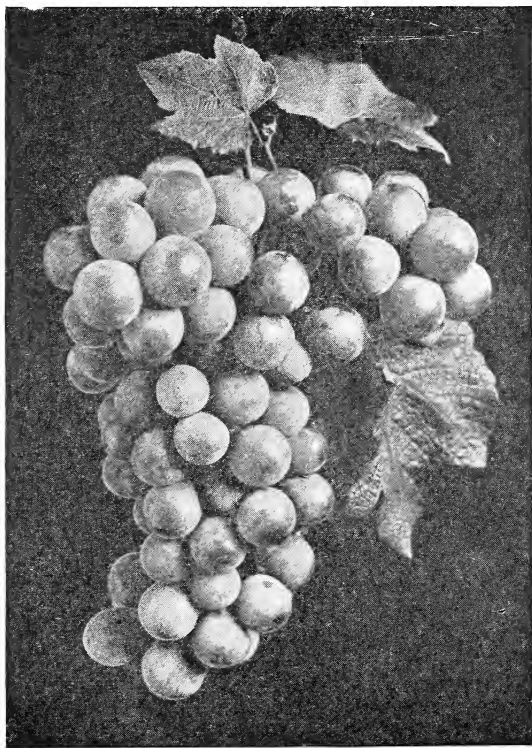
Hoke. Large, roundish, heart-shaped; dark, purplish red; skin thick, tough, resisting rot in wet weather; small stone; flavor subacid, sprightly; quality best. Ripe last of May.

Baldwin. A large, tart Cherry. Fruit very large and handsome; tree a fine grower and great bearer. Succeeds where the old Morello does. Ripens two weeks before Morello. Early, hardy and productive.

GRAPES

Price: 25c each, except as noted otherwise.

Grapes can be so easily grown there is no excuse for any one not having an abundance of this fine, luscious fruit. Plant them along the garden fence if you haven't room for an arbor.



Cluster of Niagara Grapes (Reduced)

Winchell (Green Mountain). White; bunches large; berries medium. Early. Price: 75c.

LUTIE. One of the best for the South for home and local market. Brownish red; bunches and berries large; quality sweet and sugary. Early. Price: 50c each.

- Moore's Early.** Black, with heavy blue bloom; bunches medium, with berries very large and round. Good quality and early.
- Brighton.** Coppery red; bunches large; berries large and of best quality; ripens early. Vine productive and vigorous.
- Worden.** Black; bunches large and handsome; berries large and sweet. Vine thrifty and vigorous; hardy and a good bearer.
- Campbell's Early.** Black; clusters and berries large and perfect; flavor rich and sweet; one of the best; a fine keeper. **Price: 50c.**
- Martha.** White, turning to pale yellow when ripe; skin thin; flesh very sweet and juicy; bunches and berries medium. A little earlier than Concord.
- CONCORD.** Large in bunch and berry; the most popular old variety; succeeds almost anywhere. Medium early.
- DELAWARE.** Small, red; quality much admired, sweet, sugary, vinous; musky aroma.
- Brilliant.** A delicious dessert variety. Berries large, light and with very light bloom. **Price: 50c.**
- NIAGARA.** A standard white market Grape. Pale green; bunches medium; berries large; flesh tender and sweet. Vine very vigorous, healthy and productive. Midseason.
- CATAWBA.** Large bunch; large berries; coppery red; flavor rich and sweet. Late.

Southern Muscadine Type of Grapes (Scuppernong Family)

One of the best species for the lower South, for it rarely fails to bear a luscious, heavy crop of fruit. This class is free from all diseases and never decays. Its cultivation is simple and the product is extra large. Plant from 20 to 30 feet apart, and train on high trellis or arbor. Ripens in order named.

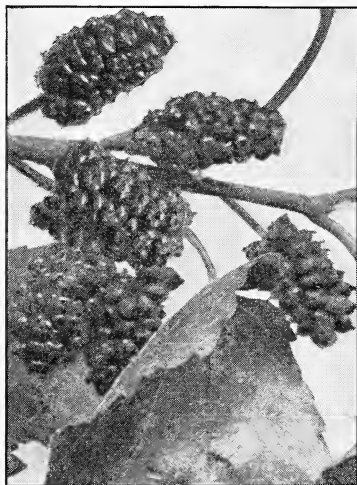
Price: 50c each.

- Thomas.** Color reddish purple; pulp sweet, tender, vinous; quality equals or surpasses any of the Muscadine class. Small bunches.
- Meisch.** Medium; black. Delicate, rich, splendid flavor.
- Scuppernong.** Bunches have from eight to ten exceptionally large, round, bronze berries; good quality; flesh sweet, pulpy, vinous. Very prolific; free from disease.
- Flowers.** Bunches have from fifteen to twenty-five berries; black and sweet-flavored. Ripe first of October or approximately a month later than Scuppernong.
- James.** Berry of extra size, easily $1\frac{1}{4}$ inches in diameter; fine quality; black.

QUINCES

Page 24 gives general information.

Price: 60c each.



Branch of Mulberries

few in number; color coppery brown; flesh white, or slightly amber-colored, shading to pink about the seeds; flesh solid, excellent quality. It is very hardy and desirable.

Brunswick. Fruit very large, broadly pear-shaped, with short, rather slender stalk; ribs well marked, eye large, open, with rosy scales; skin tough, dark brown in color; pulp thick, soft, quality very good. Satisfactory variety.

Celeste. Small to medium, pear-shaped, ribbed; violet-colored, sometimes shading to purplish brown, covered with bloom about half way up from the neck; stem short, stout. Flesh whitish, shading to rose-color at center; flesh firm, juicy, sweet, excellent quality.

MULBERRIES

See top of page 23.

Price: 50c each.

Black English. Hardy and prolific. One of the best.

Hicks. Not so good as New America in quality, but has been largely planted. Black.

White English. Fruit not so large as New America, but a good bearer and prolific.

FIGS

See page 23 for remarks.

Price: 50c each.

Brown Turkey. Size medium to large; broadly pear-shaped, with short, thick stalk; ribs

STRAWBERRIES

Price: 30c doz.; \$1.25 per 100, except Progressive.

In our latitude, early Strawberries ripen in April—the first of the small fruits. By planting a selection from the varieties given below, a succession can be had for a month. Strawberries are a sure crop, either on the first or second blooming.

The following varieties, the best for home and market, are named in the order of their ripening.

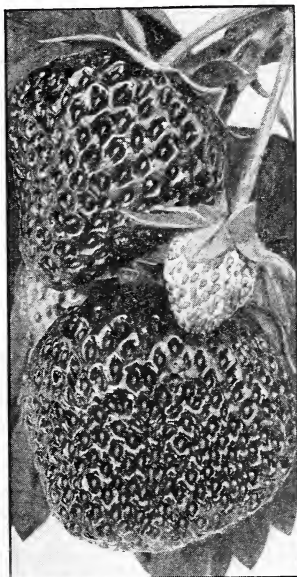
Refer to page 25 for further information.

Missionary. One of the best early market sorts.

Lady Thompson. Midseason. Succeeds well throughout the country. Color, quality and plant all good.

Greensboro Favorite. Medium size; deep, rich red. Large as Lady Thompson, more prolific, bears ten days longer. Plants strong, deeply rooted, bearing well in dry weather. Our leader.

Progressive. The best of the everbearers. We have tried this to our entire satisfaction and put our O. K. on it. The quality is fully as fine as that of any spring fruiting variety. It is not at all uncommon to find blossoms, green berries and ripe fruit on the plant at the same time. Price: 50c doz.; \$2.00 per 100.



Greensboro Favorite

DEWBERRIES

Price: 10c each; 75c doz.; \$4.00 per 100.

Lucretia. The best variety; large and prolific; valuable for home and market. Superior to the blackberry, and larger. Easily cultivated. Plant in rows 4 feet apart and 2 feet apart in the rows.

GOOSEBERRIES

Need partial shade in the South.

Price: 30c each.

Smith's Improved. Fruit greenish yellow. Bush vigorous, hardy.

Red Jacket. Fruit medium to very large; pale red.

Houghton. Fruit medium size; light red. Bush vigorous.

Downing. The most profitable market sort. Medium size; light green.

RASPBERRIES

Price: 10c each; 75c per doz.; \$1.00 per 100.

CUTHBERT. Most reliable red variety for the South. Plants vigorous and productive.

Miller Red. A newer red variety, valuable in some sections, but not equal to the Cuthbert here.

Golden Queen. The best yellow; a beauty. Plant a few of this variety along with the others.

GREGG. The oldest black variety, and the most generally known. Strong grower and good bearer.

Kansas. Black. A strong, vigorous grower, bearing immense crops. Early and of good quality.

Cumberland. The best black. It is early, productive and has a long season. Size large, and good quality.

SCARFF. A recent introduction and one of the finest blackcaps we have ever offered. The plant is strong and bears immense crops of large, coal-black berries. The flavor is delicious. Free from disease and very hardy. The price is double that of the ordinary sorts, but Scarff is worth it.

ST. REGIS. A luscious fruit; red. Everbearing when kept in a growing condition. Will grow almost anywhere. Bears first season.

BLACKBERRIES

Plant 4 feet apart in rows 6 feet apart. Pinch the canes back when 4 feet high. Light, moderately rich land is preferable.

Price: 10c each; 75c doz.; \$4.00 per 100.

Early Harvest. One of the earliest; berry medium size and good quality; prolific.

Erie. Very productive; berries large, coal-black and solid; a good keeper.

Eldorado. Vines vigorous and productive. Berries jet-black, borne in large clusters; sweet and pleasant. Good keeper and shipper.

Lovett. One of the best we have tested. Large, jet-black and very prolific.

Wilson. An old standard variety; large, productive, ripening its fruit early and maturing the crop in a short time, making it valuable for market.

ASPARAGUS

Price: 50c doz.; \$2.00 per 100.

Every home garden should have at least a row of Asparagus. We offer two varieties which we have found to be the leaders, both for home use and market: **Palmetto** and **Conover's Colossal**.

HOW TO ORDER. If convenient, we prefer that you order from one of our salesmen. If not, send your order direct to us. We will give it careful attention, shipping at the proper time.

Always make out your order on a separate sheet from your letter; write your name, address, postoffice, and shipping-point very plainly. Remit by postoffice or express money order, bank draft, or by cash in registered letter.

GUARANTEE. We use all means in our power to please our customers and have everything true to label. But we give no warranty, express or implied, as to description, quality, productiveness, or any other matter, of any nursery stock, seeds, bulbs or plants we sell, except that we will replace free anything that proves not true to name.

SUBSTITUTION. When varieties ordered are already sold, we reserve the privilege of substituting other varieties of equal merit, or better, and ripening at the same season. Patrons not desiring substitution in any instance should so state in ordering.

REPLACING. When stock is delivered in good condition, our responsibility ceases. However, if it has been properly cared for, we replace all dead plants at half list price.

SHIPPING AND PLANTING SEASON. In ordinary seasons we begin shipments in November, and continue up to Christmas, then discontinue till about February 10; we then commence again and ship till about the first of April. The planting season in the South is from November to April, when the weather is open and nice and no frost is in the ground.

WHERE WE SHIP. We ship with perfect safety to all the southern and border states, from New York to Florida. We pack orders so they will keep in good condition for three weeks.

IF FROZEN IN TRANSIT. Nursery stock frozen in transit will not damage if handled as follows: Immediately on finding signs of frost in boxes, close them tight and place in cellar or bury in sawdust or dirt, and do not handle the stock until all signs of frost have disappeared. It will require perhaps ten days to draw the frost in this manner. Do not expose to light or air while frozen.

SHIPMENTS DELAYED IN TRANSIT and which open up too dry and appear to be shriveled should be soaked in water over night, which will resuscitate them.

HOWARD NURSERY COMPANY

STOVALL, GRANVILLE CO., N. C.

DISTANCES FOR PLANTING

Often trees are planted too close, thereby retarding their growth and development. The following we consider advisable.

Feet apart each way		Feet apart each way	
Standard Apples	25 to 30	Plums and Apricots	15
Peaches	15 to 20	Japanese Plums	12 to 15
Standard Pears	20	Quinces	10
Dwarf Pears	10	Grape Vines	10 to 20
Sour Cherries and Nectarines	20	Gooseberries and Raspberries.	4
Sweet Cherries	25 to 40	Pecans	40 to 60

Number of Trees or Plants Required Per Acre Where Planted Various Distances Apart

1 foot apart each way ...	43,560	25 feet apart each way ...	69
4 feet apart each way ...	2,725	30 feet apart each way ...	48
10 feet apart each way ...	435	40 feet apart each way ...	27
15 feet apart each way ...	193	50 feet apart each way ...	17
20 feet apart each way ...	108	60 feet apart each way ...	12

If it is desired to plant a certain number of feet apart in the rows, and have the rows a different number of feet apart, then multiply the distance in feet between the rows by the distance apart the plants are in the rows, the product of which divided into 43,560 will give the number of trees, etc., required per acre.